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E. Willman  
7-25-02

PATENT

Attorney Docket No.: A-69605-1/DJB/RMS/DCF

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

GUNDERSON et al.

Serial No. 09/940,185

Filed: August 27, 2001

For: PROBES AND DECODER  
OLIGONUCLEOTIDES

Examiner: Not Yet Assigned

Group Art Unit: 1645

CERTIFICATE OF MAILING

I hereby certify that this correspondence, including listed enclosures, is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231 on:

Dated: 1/22/02

Signed: Fern Marder  
Fern Marder

PRELIMINARY AMENDMENT  
RE SEQUENCE LISTING

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

This Amendment re Sequence Listing is being submitted in reply to the Notice to File Missing Parts of Nonprovisional Application, dated October 19, 2001. The present Amendment is submitted to comply with requirements for patent applications containing nucleotide sequence and/or amino acid sequences.

The Commissioner is authorized to charge any fees, including extension fees, which may be required, or credit any overpayment to Deposit Account No. 06-1300 (Our Order No.

A-69605-1/DJB/RMS/DCF).

Please amend the application as follows and to comply with requirements for patent applications containing nucleotide sequence and/or amino acid sequence disclosures in adherence with rules 37 C.F.R. § 1.821-1.825:



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IN THE SPECIFICATION:

Please insert the following paragraph starting on page 1 line 5:

-1 SEQUENCE LISTING

*A1*  
The compact disc containing the Sequence Listing is hereby incorporated by reference. The compact disc contains the file named Seq. List for 09\_940,185, created on January 22, 2002, and containing 1000 kilobytes.

Please replace the section entitled "Summary of the Invention", starting on page 5, line 12, with the following rewritten section:

-1 SUMMARY OF THE INVENTION

*A2*  
In accordance with the above objects, the invention also provides a method of detecting a target nucleic acid. The method comprises contacting the target nucleic acid with an adapter sequence such that the target nucleic acid is joined to the adapter sequence to form a modified target nucleic acid. In addition, the method comprises contacting the modified target nucleic acid with an array comprising a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified target nucleic acid form a complex, wherein the microspheres are distributed on the surface, and detecting the presence of the target nucleic acid. In addition the method comprises adding at least one decoding binding ligand to the array such that the identity of the target nucleic acid is determined. Preferably the adapter nucleic acids include a sequence as set forth in Table 1 (SEQ ID NOS: 17-4000), Table 2 (SEQ ID NOS: 1-40, 42-54, 56-115, 117-272, 274-295, 297-300, 302-329, 331-332, 334-370, 372-437, 439-454, 456-457, 459-475, 477-503, 505-540, 542-548, 550-598, 600-649, 651-759, 761-847, 849-1147, 1149-1155, 1157-1171, 1173-1203, 1205-1250, 1252-1275, 1277-1284, 1286-1289, 1291-1568, 1570-1996, 1998-2014, 2016-2044, 2046-2139, 2141-2183, 2185-2195, 2197-2215, 2217-2532, 2534-2565, 2567-2569, 2571-2597, 2599-2619, 2621-2639, 2641-2698, 2700-2746, 2748-2772, 2774-2777, 2779-2803, 2805-2832, 2834-2877, 2879-2915, 2917-2969, 2971-3009, 3011-3044, 3046-3078, 3080-3159, and 3161-3232), Table 3 (SEQ ID NOS: 1-16, 18-40, 42-54, 56-113, 117-210, 213-272, 274-295, 297-300, 302-309, 312-329, 331-332, 334-370, 372-408, 411-437, 439-456, 459-475, 477-508, 512-540, 542-548, 550-598, 600-608, 611-649, 651-705, 708-759, and 761-802) or Table 4 (SEQ ID NOS: 4001-4768).

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In addition the invention provides a method of making an array. The method comprises forming a surface comprising individual sites on a substrate, distributing microspheres on the surface such that the individual sites contain microspheres, wherein the microspheres comprise at least a first and a second subpopulation each comprising a capture probe, wherein the capture probe is complementary to an adapter sequence, the adapter sequence joined to a target nucleic acid, and an identifier binding ligand that will bind at least one decoder binding ligand such that the identification of the target nucleic acid is elucidated. Preferably the adapter nucleic acids include a sequence as set forth in Table 1, Table 2, Table 3 or Table 4.

*A2  
cont'd*

In addition the invention provides a kit comprising at least one nucleic acid selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 or Table 4. In one embodiment the invention provides a kit that includes a nucleic acid that includes a sequence as set forth in Table 1, Table 2, Table 3 or Table 4.

In addition the invention includes an array composition comprising a first population of microspheres comprising first and second subpopulations, wherein the first subpopulation includes a first nucleic acid selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4 and the second subpopulation includes a second sequence selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

In addition the invention includes an array composition comprising a first sequence at a known location on a substrate, wherein the first sequence is selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

In addition the invention includes a method for making an array. The method includes distributing a population of microspheres on a substrate, wherein the population includes first and second subpopulations, wherein the first subpopulation includes a first sequence selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 or Table 4 and the second subpopulation includes a second sequence selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

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In addition the method includes a method of immobilizing a target nucleic acid. The method includes hybridizing a first adapter probe with a first target nucleic acid, wherein the first adapter probe comprises a first domain that is complementary to the first target nucleic acid and a second domain, comprising a first sequence selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4 to form a first hybridization complex. In addition the method includes contacting the first hybridization complex with a first capture probe immobilized on a first substrate, wherein the first capture probe is substantially complementary to the second domain of the first adapter probe.

A2  
cont'd

In addition the invention includes a method of decoding an array composition comprising providing an array composition that includes a substrate with a surface comprising discrete sites and a population of microspheres comprising at least a first and a second subpopulation, wherein each subpopulation comprises a bioactive agent. The microspheres are distributed on the surface. The method further includes adding a plurality of decoding binding ligands to the array composition to identify the location of at least a plurality of the bioactive agents wherein at least a first decoder binding ligand comprises a sequence selected from the group consisting of the sequences of Table 1, Table 2, Table 3 or Table 4.

A method of detecting a target nucleic acid sequence, said method comprising attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein the first adapter nucleic acid includes a sequence selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4. The method further includes contacting the modified first target nucleic acid sequence with an array comprising a substrate with a patterned surface comprising discrete sites and a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that the first capture probe and the modified first target nucleic acid sequence form a hybridization complex; wherein the microspheres are distributed on the surface and detecting the presence of the modified first target nucleic acid sequence.

Please replace the paragraph starting on page 13, line 30, with the following rewritten paragraph:

A3  
|→Accordingly, by "adapter sequences" or "adapters" or grammatical equivalents is meant a nucleic acid segment generally non-native or exogenous to a target molecule that is used to immobilize the target molecule to a solid support via binding to a capture probe sequence. In

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A3  
Cont'd

a preferred embodiment the adapter sequences and capture probes are selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4.

Please replace the paragraph starting on page 13, line 36, with the following rewritten paragraph:

A4

Table 1 (SEQ ID NOS: 17-4000) includes the sequence of the preferred 3983 sequences labeled "Decoder (5'-3')", and inherent in this table are the complementary sequences as well. In addition, the invention includes oligonucleotides that are complementary to those depicted in Table 1.

Please replace the paragraph starting on page 14, line 1, with the following rewritten paragraph:

A5

Table 2 (SEQ ID NOS: 1-40, 42-54, 56-115, 117-272, 274-295, 297-300, 302-329, 331-332, 334-370, 372-437, 439-454, 456-457, 459-475, 477-503, 505-540, 542-548, 550-598, 600-649, 651-759, 761-847, 849-1147, 1149-1155, 1157-1171, 1173-1203, 1205-1250, 1252-1275, 1277-1284, 1286-1289, 1291-1568, 1570-1996, 1998-2014, 2016-2044, 2046-2139, 2141-2183, 2185-2195, 2197-2215, 2217-2532, 2534-2565, 2567-2569, 2571-2597, 2599-2619, 2621-2639, 2641-2698, 2700-2746, 2748-2772, 2774-2777, 2779-2803, 2805-2832, 2834-2877, 2879-2915, 2917-2969, 2971-3009, 3011-3044, 3046-3078, 3080-3159, and 3161-3232) includes the sequence of the preferred adapter/capture probe sequences and their complementary sequence. Table 2 depicts a preferred subset of 3176 decoder oligonucleotides and their complementary probe oligonucleotides. Accordingly, the invention provides compositions comprising a sequence as outlined in Table 2. In addition, the invention provides a composition comprising a complementary binding pair as outlined in Table 2.

Please replace the paragraph starting on page 14, line 6, with the following rewritten paragraph:

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*A4*

Table 3 (SEQ ID NOS: 1-16, 18-40, 42-54, 56-113, 117-210, 213-272, 274-295, 297-300, 302-309, 312-329, 331-332, 334-370, 372-408, 411-437, 439-456, 459-475, 477-508, 512-540, 542-548, 550-598, 600-608, 611-649, 651-705, 708-759, and 761-802) includes a preferred subset of 767 decoder oligonucleotides and complementary probe sequences. In some embodiments it may be desirable to include a uniform base at a terminus of the oligonucleotide, such as a T at the 5' end as depicted in Table 4. The inclusion of this uniform or constant base facilitates uniform labeling of the oligonucleotides.

Please replace the paragraph starting on page 14, line 21, with the following rewritten paragraph:

*A7*

As will be appreciated by those in the art, it is desirable to have adapter sequences that do not have significant homology to naturally occurring target sequences, to avoid non-specific or erroneous binding of target sequences to the capture probes. Accordingly, preferred embodiments utilize some method to select useful adapter sequences. In a preferred embodiment the method is outlined in Figure 1. Briefly, random 24-mer (or could be any desired length as outlined herein), sequences were assembled and subjected to certain defined screening procedures including such steps as requiring that the Tm of each of the sequence be within a pre-defined range. In addition the GC content must be balanced with the AT content and the self-complementarity must be minimized. In addition GC runs should be minimized, that is, runs of Gs or Cs should be reduced. In addition, decoder (adapter) to decoder (adapter) complementarity should be reduced so that the adapters do not hybridize with each other. Finally, the sequences are screened against a specified genomic database. In a preferred embodiment the adapters comprise at least one sequence selected from the sequences in Table 1, Table 2, Table 3 or Table 4.

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Please replace the paragraph starting on page 17, line 6, with the following rewritten paragraph:

*A8*  
The adapter sequences may be chosen as outlined above. Preferably the adapters are selected from the sequences set forth in Table 1, Table 2, Table 3 or Table 4. These adapter sequences can then be added to the target analytes using a variety of techniques. In general, as described above, non-covalent attachment using binding partner pairs may be done, or covalent attachment using chemical moieties (including linkers).  
*P&P*

Please replace the table starting on page 139, line 1, with the following rewritten table:

*A9*  
-TABLE 2

Seq. ID No.	Decoder Sequence (5'-3')	Probe Sequence (5'-3')
1	TTGCCGTCGTAGGCTTTCAA	TTGAAAAGCCTACACGACGGCGAA
2	TTGAAGCGCACGCCCTTTCAA	TTGAAAAGGGACGTGCGCTTCGAA
3	AACGCGTGGGAATGGGACATCAA	TTGATGTCCTTCCCCACGCGTT
4	CCGTCGCATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
5	ATGGCCGTGCTGGGACAAGTCAA	TTGACTGTCCCCAGCACGGCCAT
6	TTGCAACGGGCTGGTCAACGTCAA	TTGACGTTGACCAGCCGTTGCAA
7	CGCATAGGTTGCCGATTCTCAA	TTGACGAAATCGGCAACCTATGCG
8	CCGTTTGCCTCGTCCCTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
9	TTCGCTTCGTGGCTGCACTCAA	TTGAAGTGCAGCCACGAAAGCGAA
10	GTCCAACGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
11	TTGCCGCACCGTCCGTACCTCAA	TTGAGATGACGGACGGTGCAGCAA
12	CATCGTCCCTTCGATGGATCAA	TTGATCCCACGAAAGGGACGATG
13	GCACGGGAGCTGACGACGTGCAA	TTGACACGTCGTCAGCTCCGTGC
14	AGACGCACCGAACAGGCTGCAA	TTGACAGCCTGTTGCGGTGCGTCT
15	CGTGTAGGGGTCCCGTGTCAA	TTGACAGCACGGGACCCCTACACG
16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCCTGACTTGCAGCGATG
17	GGCTGGTTGGCCGAAAGCTAG	CTAAGCTTCGGGCCGAACCAGCC

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18	GTTCCCAGTGAAGCTGCGATCTGG	CCAGATCGCAGCTTCACTGGGAAC
19	TACTTGGCATGGAATCCCTACGC	GCGTAAGGGATCCATGCCAAGTA
20	ACTAGCATATTCAGGGCACCGGC	GCCGGTCCCTGAAATATGCTAGT
21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTTCATTGACCGTTC
22	GCGGCCTTGGTTCAATATGAATCG	CGATTATTAATGAACCAAGGCCGC
23	GATCGTTAGAGGGACCTTGCCCAGA	TCGGGCAAGGTCCTCTAACGATC
24	TGGACCTAGTCCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
25	ATAAACTACCCAGGACGGGCGGAA	TTCCGCCCGTCCCTGGGTAGTTAT
26	CATCGGTTCGCGCCAATCCAGATA	TATCTGGATTGGCGCGAACCGATG
27	GTCGGGCATAGAGCCGACCACCCCT	AGGGTGGTCGGCTCTATGCCGAC
28	CTTGGGTATGATTACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
30	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCAAACATGCG
31	AGCCACTGCATCAGTGCTGTTCAA	TTGAACAGCACTGATGCACTGGCT
32	GGTTGTTTGAGGCGTCCCACACT	AGTGTGGACGCCTCAAAACAACC
33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTTGCTTTGGTCGA
34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
35	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTC
36	TGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTGACACA
37	ATATCGGGATTGTTCCCGGTGAA	TTCACCGGGAACGAATCCGATAT
38	GCGAGCGTACCGAAGGGCCTAGAA	TTCTAGGCCCTCGGTACGCTCGC
39	TTACCGGCAGCGGACTTCCGAATT	AATTCCGAAGTCCGCTGCCGGTAA
40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTGATTAC
42	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTCGCCTACGCTAACAGG
43	TAGCGGACCGGCAGAATGAGTTCC	GGAACTCATTCTGCCGGTCCGCTA
44	GGTACATGCACTACGCGCACTCGG	CCGAGTGCACGTAGTGCATGTACC
45	AATTGATCTCGGACTCCCGCGTA	TACCGCGGGAGTCCGAGATGAATT
46	GCCAAATCTGGATTGGCAGGAATG	CATTCCCTGCCAATCCAGATTGGC
47	TGCATTTCGGTTGAGGCACATCC	GGATGTGCCTAACCGAAAATGCA
48	CCGCTCAATTACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
49	CTCGGAAAGGTGCAACTTGGTGT	ACACCAAAGTGCACCTTCCGAG
50	AATTGACCCAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCGAATT
51	GCCAGAGTCTAACCTCACGGAT	ATCCCGTGAGGTTGAGACTCTGGC
52	CCAACAACCTGGAACGGGAACCCGC	GCGGGTTCCCGTCCAGTTGTTGG
53	GAGAACTGATCGCTGAGGGGCATG	CATGCCCTCAGCGATCAGTTCTC
54	GGCACACTAGACTTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC
56	TCACATCCAAATATGGTCCCGGAA	TTCGCGGACCATATTGGATGTGA
57	GTCTGCCGGTGTGACCGCTTCATT	AATGAAGCGGTACACCCGGCAGAC

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58	CATCGCAGAGCATAAACACCCCTCA	TGAGGGTGTATGCTCTGCGATG
59	GTGGTATCTATGGCAGAGCGGA	TCCGCCTCTGCCATAGATACCAAC
60	ACGAGGTGCCGCTGAGGTTCCATT	AATGGAACCTCAGCGGCACCTCGT
61	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGTCCACTCATTCC
62	TGTCAATATGCGTCCGTGCGTCT	AGACGACACGGACGCATATTGACA
63	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCCTGAGGCTCATCA
64	CACCGCGGTGTTCCCTACAGAATGA	TCATTCTGTAGGAACACCGCGGTG
65	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
66	TTAACCTGCGTCTGCCCTTCCT	AGGAAAGGGGCAGACGCAGGTTAA
67	AGGCGCGTTCCTGCCTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
68	TAGGGCGATGGCACGAAGCTCAA	TTGAAGCTCGTGCCATGCCCTA
69	TGCATAGAGCAAAGTCGGCGATG	CATGCCGACTTGGCTCTATGCA
70	TTGAGAGGCAGGTGCCACACGGA	TCCGTGTGCCACCTGCCCTCAA
71	TCCGCATTGTGAGAAAAACGAGC	GCTCGTTTTCTCACAATGCGGA
72	GGCGGTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGGAAACCGGCC
73	GGTAAAATTCGTAGCCACGGGC	GCCCCGTGGCTACGAAATTCACC
74	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCTCCGTGCG
75	CCAGTTGCCCAATTGCCAAAAA	TTTTGGCGAATTGGGCCAAACTGG
76	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCTAATAGATCC
77	CGGATGTCACCGTTGGACTTCA	TGAAAGTCAAACGGTGACATCCG
78	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTGCGAT
79	CAGGGCATGCAATAATCGAGGTT	GAACCTCGATTATTGCATGCCCTG
80	CATGCGTTGATATATGGGCCAAG	CTTGGGCCATATATCAACGCGATG
81	CAGCTGCAGCTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
82	TTGTATGTCGCCGACCGGGCGACC	GGTCGCCGGTCGGCAGACATACAA
83	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGCGCCATC
84	ATGAGAATGCCGGCAATCTGCTA	TAGCAGATTGCCGGCGATTCTCAT
85	ATTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCCGGTCAGTGCAAAT
86	CAGGGAGAACGGTTAACGTTCCGT	ACGGGAACCTAACCGTTCCCTG
87	AGGCCGGCGATCGAGGAGTTGGT	ACCAAACCTCTCGATGCCGGCCT
88	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCAACCGTGT
89	GTGCAACGCCGAGGACTTCCATCA	TGATGGAAGTCTCGCGTTGCGAC
90	TCGGTGCCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
91	TGAAATACCACACAGCCAATTGGC	GCCAATTGGCTGTGTTAGTATTCA
92	GCATCGTGTACATGACTGCCCGA	TCGCGGCAGTCATGTACACGATGC
93	CAGTGTCTAACGGCGCGCGTGA	TTCACCGCGCCGTTAGAACACTG
94	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
95	CGAAAAACTAGTGGCCTGCCCGCG	CGCGCGAGCCCACTAGTTTCG

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96	CTTCAGGGAACTGCCGGAGTCG	CGACTCCGGCAGTCCCTGAAAG
97	TTGTGGCCTTCTGTAAAGGCACG	CGTGCCTTACAAGAAGGCCACAA
98	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTCGCCGTTGTGGA
99	CGACCTTGCACGAAACCTAACGAG	CTCGTTAGGTTCTGTGCAAGGTCG
100	GTGCAGCTTACAGGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
101	CGCTTCGTGCGAATAGACGATGA	TCATCGTCTATTGCAAGGCG
102	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
103	CACCGCGTTAGTCGCGATCGCATA	TATGCGATCGCGACTAACCGCGTG
104	CGGAGGGAGGGAGCTAGCCTCGA	TCGAAGGCTAGCTCCCTCCCTCCG
105	GCATCCGGCCTGTTGATGACGCC	AGGCGTCATCAACAGGCCGGATGC
106	AGGCCAATCGATCTTATTGCCGAG	CTCGGCAATAAGATCGATTGGCCT
107	CCTTCCAATGATTGCATACGCCA	TGGCGTATGCAATCATTGGAAGG
108	AACACTTGATCAGGCCGGTGTCT	AGACGACCCGCCGTGATCAAGTGT
109	TGGAATCAAGGCCGTAAGGACAG	CTGTCCTTACGGCCTGATTCCA
110	GCTCCCGTAACCTGTCCACCAGTG	CACTGGTGGACAGGTTACGGGAGC
111	AGTGGTGAATGGCCGCTACCCCTGA	TCAGGGTAGCGGCCATTCAACACT
112	TGTTGAAGCGAGCTAAACGGCCA	TGGCCGTTTAGCTCGCTTCAACA
113	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
114	AAGGTGGTGCCTTCATTGGCTA	TAGCCAAATGAATGGCACCACTT
115	CGTTAAACCGCAATCCGTTGGCT	AGCCGAACGGATTGCGGTTAACG
117	CACGAGATAACGGCGTAAGGGTGG	CCACCCCTACGCCGGTATCTGTG
118	CTACGGCAAACGTGTGGAATGGGT	ACCCATTCCACACGTTGCCGTAG
119	GTAGGGCGATGACGGGCGAACTAC	GTAGTCGCCGTACGCCCTAC
120	AATCGACCTCCGCACACATTGCA	TGCGAATGTGTGCGGAGGTCGATT
121	GAGTCAGCATGGCGGCGGAGATT	GAATCTCCGCCGCATGCTGACTC
122	AGATAAAGACGCTGGAACACGGG	CCCGTGTGCCAGCGTCTTATCT
123	GGTACCTCAACCGCAACCACCTGT	ACAAGTGGTTCGCGTTGAGGTACC
124	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTTGGGTAGCCATCGCTT
125	AGAGCTTATGCAGAACCGAGGCC	GGCGCCTGGTTCTGCATAAGCTCT
126	ATCGGTCTCACGCAGGGTGGATA	TATCCAACCCCTGCGTGAGACCGAT
127	TAGGTTGCCGCCAGAAGAAACAT	ATGTTCTTCTGGCGGGCAACCTA
128	CGGTGCTGTTGCAAAAGCCTGTAG	CTACAGGCTTTGCAACAGCACCG
129	TGATGAAAGTTGCGGCAGGACAC	GTGTCCTGCCGAAACTTCATCA
130	GTTGAGTGCAGGATGCAGCGATAG	CTATCGCTGCATCCTGCACTCAAC
131	AACATTGCCGGTCCACCAGGGTT	AACCCCTGGTGGACCGCGCAATGTT
132	GGGCAGTTAGAGAGGGCCAGAAGT	ACTTCTGGCCCTCTAACTGCC
133	TCGAGCTGGTCCCCGTGACGTGT	ACACGTTCACGGGGACCAGCTGA
134	GTCTTGGGGGCCGTTAGTAAAAA	TTTCACTAAGCGGCCCAAGAC

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135	ACTGTTGGCTTGCTCTCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
136	AGGACCATTGGAAAGCGAAGATA	TATCTCGCCTCCGAATGGTCCT
137	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
138	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTCCGTTATT
139	TTGTACGTGCGGTCCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
140	CGCACCAAAC TGAGTTCCCAGAC	GTCTGGAAACTCAGTTGGTGCG
141	ACCTGATCGTCCCCATTGGGAA	TTCCCAATAGGGGAACGATCAGGT
142	GGAACAGAGGCGAGGGGACTGAGC	GCTCAGTCCCCCTGCCCTGTTC
143	CCCTGCCTTGGCGTGTGGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
144	ACTCTGACACGCCAACCTCCGGAAG	CTTCCGGAGTTGGCGTGTCAAGGT
145	CTGACGGTTTCATTGGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
146	TGCGGTGGTTCATGGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
147	GCATGGCCAAC TAGTGACTCGCAA	TTGCGAGTCACTAGTTGCCATGC
148	AGGCCGTAAAGCGAATCTCACCTG	CAGGTGAGATTGCGTTACGGCCT
149	CGAATATTATGCCGAGAATCCGCG	CGCGGATTCTCGGCATAATATTG
150	ACAGACGAGCTCCCAACCACATGA	TCATGTGGTTGGGAGCTCGTCTGT
151	GGACGGTTTGTGCTGGATTGTCTG	CAGACAATCCAGCACAAACCGTCC
152	AAAGGCTATTGAGTTGGTGGCG	CGCCCAACCAACTCAATAGCCTTT
153	GATGGCCTATTGGAGATCGGCC	GGCCCGATCTCGGAATAGGCCATC
154	GATCCAGTAGGCAGCTTCATCCCA	TGGGATGAAGCTGCCACTGGATC
155	AATAACTCGCGCGGGTATGCTTCT	AGAACGCATACCCGCGCGAGTTATT
156	GGAGGAGGTTGTCTGGAAAGCA	TGCTTCCGAGACAAACCTCC
157	CTTGGTATGGCACATGCTGCCG	CGGGCAGCATGTGCCATACCAAAAG
158	AGAAAGGCTCGAGCAACGGGAAC	AGTCCCGTTGCTCGAGCCTTCT
159	AATCTACCGCACTGGTCCGCAAGT	ACTTGCGGACCAGTGCAGTAGATT
160	CGTGGCGGCCACAGTTTGAGG	CCTCCAAAAACTGTGGCCGCCACG
161	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAAC TGCAA
162	GGCCCAAAGCCCCAGACCATTAA	AAAATGGTCTGGGCTTGGGCC
163	CGCCTGTCTTGTCTCCGGACAAT	ATTGTCCGGAGACAAAGACAGGCG
164	TGAGGCAACAGGGGCCAAAAACTA	TAGTTTTGGCCCCCTGTTGCC
165	AGCGGAAGTAGTCCTCGGCTCGTC	GACGAGCCGAGGACTACTCCGCT
166	GGCCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAACGCTTGGGCC
167	GCACGTGAAGTTAACCGCGATT	GAATCGCGTTAAACTCACGTGC
168	AGCGGCAGAACGTTCTTGACGG	CCGTCAGGAACGTTCTGCCGCT
169	TCGTCGAGCAGACGAGATTGCACG	CGTCAATCTCGTCTGCTCGACGA
170	TCTTGCCCGTAACTGACTGCTT	AAGCAGTCAGTTACGCGGCAAAGA
171	TTTATGTGCCAAGGGGTTAACCGA	TCGGTTAACCCCTGGCACATAAA
172	TGTTACTGTGGTTACGGCAGTCC	GGACTGCCGTGAACCAACAGTAACA

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173	CGCGCCTCGCTAGACCTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
174	ACAAATGCGTGAGAGCTCCAACT	AGTTGGGAGCTCTCACGCATTGT
175	CGCGCAGATTATAGACCCGAATGT	ACATTCGGGTCTATAATCTGCGCG
176	CAAATAACGCCGCTGAATCGCGT	ACGCCGATTCAAGCGGCGTTATTTG
177	CCTTCGTGCATCGGTGATGATGTT	AACATCATCACCGATGCACGAAGG
178	TGAACACGAGCAACACTCCAACGC	GCGTGGAGTGTGCTCGTGTCA
179	CAGCAGATCCTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG
180	GGAACCTGGTGAGTTGTGCCTCAT	ATGAGGCACAACTCACCAGGTTCC
181	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTCGCTTATGA
182	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
183	TGTCAGAGCCCGCGACTCAGACGG	CCGCTTGAGTCGCGGGCTCTGACA
184	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGCTTCGTGTA
185	CTCAGAAGTCCTCGCGAAGTGGG	CCCAGTTGCCGAGGACTTCTGAG
186	ATCCTTTATCTACTCCGCGCGA	TCGCCCGGGAGTAGATAAAAGGAT
187	AGGCGTGCAGCAACAGGATAAAC	GGTTTATCCTGTTGCTGCACGCCT
188	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTCGAGAGT
189	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTCTCGATGGACCTGGCAA
190	TCCACTATAACTGCAGGGTCCGTGT	ACACGGACCCGCAGTTAGTGGGA
191	GCCCCAGTCGGCTCTAACAGTTG	CGAACTTGTAGAGCCGACTGGGC
192	CGGAACGGATAATCGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
193	TAAAATAAGCGCTGGCGGGAGGA	TCCTCCCGCCAGGCCTTATTTA
194	GCGCACTCGTAAACCTTCTCGC	GCGAGAAAGGTTCACGAGTGC
195	AGTTTGCCAGGTACTGGCAAGTGC	GCACTTGCCAGTACCTGGCAAAC
196	ACAAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTCGTTGT
197	TTCGCAGCACCCGCTAGGTACAGT	ACTGTACCTAGCGGGTGTGCGAA
198	TAACCCGATTTTGCAGCTGCC	GGCAGAGTCGCAAAATCGGGTTA
199	CGTCGCATTGCAAGCGTAGGCTTG	CAAGCCTACGCTGCAATGCGACG
200	GAGCTGACGTACCACATCAGAGGAA	TTCCTCTGATGGTGACGTCAGCTC
201	GGAGGCTGGGGTCGCGCTTAAGT	ACTTAAGCGCGACCCCCAGCCTCC
202	TTGTGGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCAGGTTCCCACAA
203	CCCTCGCACTGTGTTACCCCTTT	AAGAGGGTGAACACAGTGCAGGG
204	TCATTGACTCGAACCGCACAAACG	CGTTGTGCGGATTGAGTCATGA
205	ACAGGGGTTGGCCTCGTACGTAC	GTACGTACGAAGGCCAACCCCTGT
206	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGCACGGCCT
207	GGGCCGTGGTCACGTAATTGGC	GCCAATATTACGTGACCAACGGCCC
208	GCGCGGACATGAAACGACAAGGCC	GGCCTTGTGTTTCATGTCCGCGC
209	CTTATTGGGTGCCGGTGTGGATT	AATCCGACACCCGGCACCCAATAAG
210	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTGGTAACCGCCCC

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211	GCTAAAGCGTGCTCCGTAACGCC	GGCAGTTACGGAGCACCGCTTAGC
212	ATCTCATGCATCTCGGTCGTCGT	ACGACGAACCGAGATGCATGAGAT
213	ACGAAAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTCGT
214	CCAAGTACACCGCACGCATTTA	TAAACATGCGTGCAGGTACTTGG
215	ATCGTGCCTGGAGTGTGCGATCTA	TAGATGCGACACTCCACGCACGAT
216	TCCAGATAACGCCCGAACTTGA	TCAAAGTTCGGGCGGTATCTGGA
217	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
218	TTGAAATTGCTCTGCCGTAGTCA	TGACTGACGGCAGAGCAATTCAA
219	AGTCAGGCGAGATGTTCAGGCAGC	GCTGCCTGAACATCTGCCTGACT
220	ACAAGCCGACGTTAACGCCGCCA	TGGGCGGGCTTAACGTCGGCTTGT
221	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTCATTAGGG
222	GTGAGACACACATCCCCTCCAATG	CATTGGAGGGATGTGTGTCAC
223	CGACGGATGCCAGAGTTCACTGGTC	GACCACTGAACCTGCATCCGTCG
224	CCCGCATGCCCTGGCGGTATTACAA	TTGTAATACCGCCAGGCATGCGGG
225	TTAGCAAAGCGGCCGCCGTAGCAA	TTGCTAACGGCGCCGCTTGCTAA
226	CCCGACACGGGTCAAGCTAACAT	ATTATTACGCTGACCCGTGCGGG
227	GCGACGGCCCTGAGGTATGTCGC	GACGACATACCTCAGGCCGTGCG
228	CAAAAGTGTGTTCCCTTGCGCTTG	CAAGCGCAAGGGAACACACTTTG
229	TCTCGAACGACAGCCGGTTATTG	CAATAACCGGGCTGTGCTTCGAGA
230	ATGCTAACCGTTGCCATGGAACCT	AGTTCCATGGCCAACGGTTAGCAT
231	CTTGGGAGTGTAGCCAGCGGT	ACCGCTGGGCTAACACTCCGCAAG
232	TGCTCCCTAGGCCTCGGAGGAGT	ACTCCTCGAGCGCCTAGGGAGCA
233	CCATGCCTTGAGTAAGCGATGG	CCATCGTTACTCAAAGGCATTGG
234	AGCAGATAACGTCCAATGACGCC	GGCGTCATTGGGACGTTATCTGCT
235	TTGACCATTACGTGTTGCCTTGC	ATGGGCGAACACGTAATGGTCAA
236	TCGCGTATTGCGGAATTGCGCTG	CAGACGAATTCCGCAAATACGCGA
237	CTGCGTGTCAACAATGTCGGCAG	CTGCGGGACATTGTTGACACGCG
238	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCCTGGCACCAGA
239	CTCCGGGAGGTCACTTAATTGCGG	CCGCAATTAAGTGACCTCCGGAG
240	TTTCGTGATTGCCCGGAGGAGGC	GCCTCCCTCCGGCAATCACGAAAA
241	TCGGGATGTAGCTGGGCTACCGG	CCGGTAGCCCCAGCTACATCCGA
242	CGAGCCAACGCAAACACGTCTTG	CAAGGACGTGTTGCCTGGCTCG
243	GCAAAGCCTTGTGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTGC
244	ATTCGACCGGAAATGAGGTCTCG	CGAAGACCTCATTCCGGTCAAT
245	TTCGCTTGCAGTTGCTCTGTC	GAACAGAGCAACTCAGCAAGCGAA
246	CGCGTGAAGACCCATTCCGAGT	ACTCGGGAATGGGGCTTCACGCG
247	AACCGTATTGCGGGTCACTGTGG	CCACAAGTGACCGCGAATACGGTT
248	GGGGCCAACCGTTCGAGGCGTAT	ATACGCCCTGAAACGGTTGGCCCC

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249	TTCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTGGACTGCCAGCCGAA
250	GGGTGTGGTTAGAATGCACGGTTC	GAACCGTGCATTCTAACCAACACCC
251	GCGAGGACCGAAGTAGACAAACGG	CCGTTGTCTAGTCGGCCTCGC
252	ACGCACCGGTGACCGAAGTTGCTG	CAGCAACTCGGTACCGCGTGCCTG
253	TAAAAGGTCGCTTGAAAGGGGAA	TCCCCCTTCAAAGCGACCTTTA
254	TGCGATCGCTAACTGCTGGGACAA	TTGTCCCAGCAGTTAGCGATCGCA
255	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCGCTTACCTCC
256	ATGCTGACATGTCGTGCACCTCGT	ACGAGGTGCACGACATGTCAGCAT
257	TGTGGTTAAAGCGTCCGTTAACG	CGTTGAACGGACGCTTAACCACA
258	CGTTCACACCGGCGTAAGCTGCCTG	ACGCAGCTACGCCGGTGTGAACG
259	CCTATCCCGCGAGAACTTCTGTG	CACAGAAGTTCTGCCGGGATAGG
260	GTCTGCACTCACGCAGCGGAGGGAA	TCCCTCCGCTCGGTGAGTGCAGAC
261	GCACGAGTTGGTGCCTGGCAGATT	AATCTGCCGAGCACCAACTCGTGC
262	AACGTCGCACGACACACGTTCGTC	GACGAACGTGTGTCGTGCGACGTT
263	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
264	TCACGTTTCGTCTCGACATGAGG	CCTCATGTCGAGACGAAAACGTGA
265	TGTGCCTCATCCTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
266	AGGTGGTGTGGTCAACCGCTTTA	TAAAGCGGTTGACCCACACCACT
267	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTCGATCCAG
268	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACCGAGTTGATCTA
269	GATCCTGCGGAGAAGAGAGTGCAG	CTGCACTCTCTCCGCAGGATC
270	TACGTGTGGAGATGCCCGAACCG	CGGTTGGGGCATCTCCACACGTA
271	GCGCTATGTCAATCGTGGCGTAG	CTACGCCACGATTGACATAGCGC
272	ACCGAGGTTCTAGCGTCGACACC	GGTGTGACGCTAGAAACCTCGCT
274	ACCCAGGTTTGCCGTTGTGGAAT	ATTCCACAACGGCAAAACCTGGGT
275	CCCTGTTAACGGCTCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
276	AGGCCGATTTCACCCGCCATTGC	GCAATTGGCGGGTGAAATCGGCCT
277	GAGCCCTACTCCTGCCCTTGA	TCAAAGGGCAAGGAGTGAGGGCTC
278	GGGTGGACATCCGCCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
279	GATGGCTGAGAACCGTGCTACGAT	ATCGTAGCACGGTTCTCAGCCATC
280	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTCGA
281	CGAATGGGCTGGACCTTGACATAG	CTATGCAAGGTCCAGACCCATTG
282	GTGCACCAAGACATTGAACTCGGA	TCCGAGTTCGAATGTCGGTGCAC
283	AGAGGCCCGTATATCCCATCCAT	ATGGATGGGATATACGGGGCCTCT
284	AACGCCCTGTTAGGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
285	AAGGCTAACACGCCATTGTCGC	GCGCACATAGGCGTGTGAGCCTT
286	AGTCCGTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
287	ATGTCCCATGTAAAGACCGCGTGTG	CACACCGCTTTACATGGGACAT

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288	ATGGAGTCTGCTACGCCAAAGG	CCTTTGGCGTGAGCAGACTCCAT
289	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTGGAGGCCG
290	CAGAGCCGTGGCAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
291	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCACCGTCAATTCAAATGA
292	GACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
293	ATGCGAGCAATGGGATCCGGATT	GAATCCGGATCCCATTGCTCGCAT
294	AGAGTGAGGCCTCCCTGACCAGTG	CACTGGTCAGGGAGGCCTCACTCT
295	CGCACCGTAAGTAGATTGCCGC	GCGGGCAAATCTACTTACGGTGC
297	TGAACCTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
298	TCCGCCTTTGGTACCTCGAAG	CTTCGAGGTAACCAAAAAGGCGGA
299	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
300	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTGGCTGCTGTCGG
302	CATAAAAAAAACCTGGGGCTCTGCG	CGCAGAGCCCCAGGTTTTTATG
303	TGCCAACTGTGCAGACCGGACTTA	TAAGTCCGGTCTGCACAGTTGGCA
304	GGCAGAAAGAGCGAAACCGGCTCGT	ACGAGCCGGTTTCGCTCTTCGCC
305	GGGATGCGTATTTAGCGAACACG	CGTGTGCTAAAATACGCATCCC
306	TGGGATTCAAGCAGACAGTACGCGA	TCGCGTACTGGTCGCTGAATCCCA
307	CCCGATATTGCCCGGCCTATTG	CGAATAGGCCGGCGAACATCGGG
308	CGAGAAGATGCCTACGCAACCAA	TTGGTTGCGTGAGGCATCTCTCG
309	AACCTTGACCGTGGATGACGCTA	TAGCGTCATCCACGGGCAAGGTT
310	GGCTAGACGATGGATACCGTGCC	GGCACGGGTATCCATCGTAGCC
311	GCCTTTCTGACGATGCGATTT	AAAATCGCATCGTGAGAAGAGGC
312	GCTTCCGGATGAACGGGATGGTTG	CAACCATCCCGTTATCCGGAAAGC
313	CCCTCCATGTTCTCGAACGGTT	AAACCGTTGAAAGAACATGGAGGG
314	TTGATGGCGGCAATGCTTGT	AGCAAGAGCATTGCCGCCCCATCAA
315	ATTGTGAGATGCGCAAATCCCC	GGGGAATTGGCGCATCTCACAAT
316	TCAGCACAGCCAGACGGTCAACTT	AAGTTGACCGTCTGGCTGTGCTGA
317	ACTCCACTCCTCGGTGGCAAAC	TAGTTGCCACCGAGGAGTGGAGT
318	TCTGGGCATGCCTGGACGGAGACG	CGTCTCCGTCCAGGCATGCCAGA
319	TCTCAACTCCGGTACGACGAAACA	TGTTTCGTCGTACCGGAGTTGAGA
320	TTGCGTGGTCAAAGGCGAACGTG	CACGTTGCGCCTTGACCACGCAA
321	AGACAGCGATCCGGCTCATGAT	ATCATGAGCCGCGGATCGCTGTCT
322	CGCGTCTCTAACTGAGAGCAGCCA	TGGCTGCTCTCAGTTAGAGACGCG
323	AGGCGCACATGTACGGACATTAG	CTGAATGTCCGTACATGTGCGCCT
324	GATGAGTGGCACGTCGGTGTAA	TTACACACCGACGTGCCACTCATC
325	TGATCCATATTGTCGGACGTTGCG	CGCAACGTCCGACAATATGGATCA
326	ACCTGCCGGAGTTCATAGGCTAG	CTAGCCTATGAACTCCGGCAGGT
327	AGCATTGGCGTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT

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328	GGTAATATTCA CGCGC GACCGCTCA	TGAGCGGT CGCGCTGAATATTACC
329	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTCGTACGCTAT
331	TAGGTCACGATCGTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA
332	ACTGCCGTACCTCTGGTTCTGGC	GCCAGAACCAAGAGGTACGGGCAGT
334	CCTTGGCCTGAAGTTGTCGTAGC	GCTACGACAACCTCAGGCCAAAGG
335	GTGCCCCACGAGCGTATCGTTGTA	TACAACGATACGCTCGTGGGGCAC
336	AGCGCCTACGTGGGCCTGGAGCAA	TTGCTCCAGGCCACGTAGCGCCT
337	GGGTGCTACCATTGCATTAGTCG	CGGACTAATGCAATGGTAGCACCC
338	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
339	CCATGATGCATTGGGTGCATTAG	CTAAATGCACCCAATGCATCATGG
340	GGTCCGGCCCTACGAAACGTTCGA	TCGAACGTTTCGTAGGGCCGGACC
341	CCGTGTGGCTGGAGATTGTTGTA	TCACACGAATCTCCAGCCACACGG
342	GT TAGGGCGACGCATATTGGCACA	TGTGCCAATATGCGTCGCCCTAAC
343	GGGTCAGTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
344	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTGACTTCACGGC
345	GCCACCACCCAGTGCATTCAAGGTA	TACCTGAATGCACTGGTGGTGGC
346	GAGCTTAGTTGCGGTATCGGGC	GCCCGATGACCGCAAACTAAGCTC
347	TGTTGCCGCCATTAGGGAGTAAC	GT TACTCCCTAATGGCGGCAAACA
348	GCTCCGCTGGATGTGCCGGTTAG	CTAAACCGGCACATCCAGCGGAGC
349	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTCGCATGCTACCG
350	CTACGCTCTACCAGTTGCCCTGCGA	TCGCAGGCAACTGGTAGAGCGTAG
351	GTGCCCTCTGCTGTATTGCCAAG	CTTGGCAAATACAGCAGGAGGCAC
352	TTGCGACTCGACTTGGACGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
353	TCTGGGAGCTGTTACTCCAGCCA	TGGCTGGAGTAAACAGCTCCCAGA
354	TGCACGCGGAACCTCCCTTACCAT	ATGGTAAAGGGAGTTCCCGCGTAGCA
355	TGGCAGCAAATGAATCGAAAGCAC	GTGCTTCGATTCAATTGCTGCCA
356	AACTGGTGACGCGGTACAGCGAAG	CTTCGCTGTACCGCGTCACCAGTT
357	AGACGATTACGCTGGACGCCGTG	CGACGGCGTCCAGCGTAATCGTCT
358	ATGCCCTCCTTCATGGAAAGGGTT	AACCCCTTCATGAAGGAGGGCAT
359	ATTCTCGGAGCGTATGCGCCAGAA	TTCTGGCGCATACGCTCCGAGAAT
360	ATAGCGGAGTTGGGTACGCGAAC	GTTCGCGTACCCAAACTCCGCTAT
361	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATCGTAGGT
362	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTCAAGGTAATC
363	CCTGTTAGCATCACGGCGCTTAGG	CCTAAGCGCCGTGATGCTAACAGG
364	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
365	TGAGAGAGGCCTGGTTAAGGCAA	TTGCCTTAACCAACGCCCTCTCA
366	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTCGCCTGCTT
367	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCGTCTGCGTGA

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368	AAGCAATTGGCCTCGTTTGTA	TCACAAAACGAGGCCAAATTGCTT
369	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
370	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGGACAGAACGGATTACAA
372	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTGCCTCAGAGGAGGCCA
373	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTCGATTCACTCTATCC
374	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGCACGTTGGTGCA
375	GCCAGTATTCTCGGGTGTGGACG	CGTCCAACACCCGAGAATACTGGC
376	TCGCTACCTAACGACCGGCCATAC	GTATGGCCCAGTCTAGGTAGCGA
377	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCGTCAATGCCA
378	CGCGTCCCAGCGCCCTGGAGTAT	ATACTCCAAGGGCGCTGGACGCG
379	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCGGTAGGCTTCAT
380	CCAGACAGATGGCCTGGAACCATG	CATGGTCCAGGCCATCTGTCTGG
381	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTGAGATGGTCCCACGCCA
382	CCGCATGGGAAACACGTGTCAAGGT	ACCTTGACACGTGTCCCATGCCG
383	GCCCACTCGTAGCTGGACGTAAT	ATTACGTCCAGCTGACGAGTGGC
384	ATTACGGTCGTGATCCAGAAAGCG	CGCTTCTGGATCACGACCGTAAT
385	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
386	GGGCCGCATTCTTGATGTCCATT	GAATGGACATCAAGAACATGCCG
387	CCTCGGATGTGGCTCTGCCCTAG	CTAGGGAGAGGCCACATCCGAGG
388	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTACGCCAACATGCCA
389	CGATACGAACGAGGATGTCCGCC	AGGCGGACATCCTCGTTCGTATCG
390	TACGCCGGTTAGCACGGTGCCTA	TAGCGCACCCTGCTAACCGCGTA
391	CATACGATGTCCGGGCCGTGTCGC	GCGACACGGCCGGACATCGTATG
392	ATCCGCAGTTGATGGCGCGTTAT	ATAACGCGCCATACAACCTGCGGAT
393	GGGTAAGGGACAAAGATGGGATGG	CCATCCCATCTTGTCCCTTACCC
394	ATTGGAGTGTGTTGGTGAATCCGC	GCGGATTCAACAAACACTCCAAT
395	GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTT
396	GCCGTCAAGCTTAAGGTTGGC	GCCCAAAACCTTAAGCTGACGGC
397	ACCTGCTTTGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
398	AATCGTGGCGCAGCAAACGTATA	TATACGTTGCTGCACCGATT
399	GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
400	ACCCGTGATGCTCCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
401	ATCCGGGTGGCGATAAGAGAT	ATCTCTGTATCGCCCACCCGGAT
402	TTCCGCATGAGTCAGCTTGAAAA	TTTCAAAGCTGACTCATGCGGAA
403	GCAAAGTCCCAGTGGCAAGCCGAT	ATCGGCTTGCCAGTGGACTTGC
404	CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTG
405	CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACTGCGCTCATGAG
406	CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG

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407	TCAAAGGCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTGA
408	TCCGCTAATTCATCAGGGCTC	GAGCCCTGATTGGAAATTAGCGGA
409	ACGCACGGCGTTTGCCTTAATG	CATTAAGGCAAAAGCGCCGTGCGT
410	TGACAACGTCACAAGGAGCAGGAC	GTCCTGCTCCTGTGACGTTGTCA
411	CTTAGTTGGGCGCGGTATCCAGA	TCTGGATACCGCGCCCCAACTAAG
412	GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
413	CCGATTACAAATTGACTGACCGCA	TGCGGTCAAGTCATTTGTAATCGG
414	AGACGTACGTGAGCCTCCGTGTC	GACACGGGAGGCTACGTACGTCT
415	AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATCGCTCCATT
416	GGAGGCCTGTACTGATAGGCATA	TACGCCATACAGCGCCTCC
417	TGTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTAAAAACA
418	CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
419	GCCCGCTAATCCGACACCCAGTT	AAACTGGGTGTCGGATTAGCGGGC
420	CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
421	GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTGATTGGTGATT
422	AACCAGCCGCAGTAGCTTACGTG	CGACGTAAGCTACTGCCGCTGGTT
423	TTTCTGAGGGACACGCCGGCGTT	AACGCCCGCGTGTCCCTCAGAAAA
424	GGTGTCCGTTGATCGATCCTCC	GGAGGGATCGATCAAACGGAGCACC
425	CCGCTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCTAAGCGG
426	TAAGACATACCGACGCCCTGCCT	AGGCAAGGGCGTCGGTATGTCTTA
427	GTTCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
428	TAAAAGTTCGCGGAGGTGGGCT	AGCCCGACCTCCCGCGAAACTTTA
429	CGGTCCAGACGAGCTGAGTCGGC	GCCGAACTCAGCTCGTCTGGACCG
430	CGCGTAGCGGCTACGGACTTAAA	TTTAAGTCCGTAGCCGCTACGCCG
431	GCTTGGATGCCCATGCGGCAAGGT	ACCTTGCCGCATGGCATCCAAGC
432	AGCGGGATCCCAGAGTTGGAAAA	TTTCGAAACTCTGGGATCCCGCT
433	GAGCTTGAGAGCGAGGTACCTC	GAGGATGACCTCGCTCTCAAGCTC
434	GCATCGGCCGTTGACCATATT	GAATATGGTAAAACGCCGATGC
435	CATAGCGCTGCACGTTGACCGC	GCGGTCGAAACGTGCAGCGCTATG
436	ACCCGACAACCACCAATTAAAAA	TTTTGAATTGGTGGTTGCGGGT
437	GCGAACACTCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTCGC
439	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTACACTCGGCGG
440	GACATCGGGAGCCGGAAACATGAG	CTCATGTTCCGGCTCCGATGTC
441	TCGTGTAGACTCGCGACAGGCCT	ACGCCCTGTCGCCGAGTCTACACGA
442	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
443	ACAAGCGAACCCGAGTTTGATGA	TCATCAAAACTCGGGTTCGCTTGT
444	GCATGAGACTCCGCGAAGACATGT	ACATGTCTCGCGAGTCTCATGC
445	TCCTACATGTCGCGTCACGATCAC	GTGATCGTGACGCGACATGTAGGA

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446	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
447	GTCGCCAGGACTGGGCCGATGTGA	TCACATCGGCCAGTCCTGGCGAC
448	ACCGATAAGACTTGCATCCGAACG	CGTTGGATGCAAGTCTTATCGGT
449	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGACTGGTTATGGA
450	ACCGGCCCTGCATCTCGTATTAA	TTAAATACGAGATGCAGGGCGCGT
451	AGACCGCATCAATTGGCGCGTACC	GGTACCGGCCATTGATGCGGTCT
452	AGAGGCTTGGCAAGTAGGGACCCCT	AGGGTCCCTACTTGCCAAGCCTCT
453	GCAATGGACGCCAGACGATAACCGG	CCGGTATCGTCTGGCGTCCATTGC
454	GCTGGACTTAGTCGTGTTGGCGGG	CCGCCGAACACGACTAAGTCCAGC
456	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCCT
457	TGCGCATGTCGACGTTGAACAAAG	CTTTGTTCAACGTCGACATGCGCA
459	TTCGGGTCACATCCGATGCCATAC	GTATGGCATGGATGTGACCCGAA
460	ACCCATGCCCGAAAGCGATGTTG	CAACATCGCTTCCGGCGATGGGT
461	AAGCGCTGACTCGGCTAAGAACATCA	TGATTCTTAGCCGAGTCAGCGCTT
462	ACTTCCAAGTCCTTGACCGTCCGA	TCGGACGGTCAAGGACTTGGAAAGT
463	TCTCAATATTCCCGTAGTCGCCCA	TGGGCGACTACGGGAATATTGAGA
464	AACAGTTCCCTTTTCTGGCGC	GCGCCAGGAAAAAGAGGAACGTGTT
465	CGTCCTCCATGTTGTCACGAAACAG	CTGTTCGTACACATGGAGGACG
466	TGCGCAGACCTACCTGTCTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
467	ATGGACGGCTTCGCAGTCCTCCTT	AAGGAGGACTGCGAAGCCGTCCAT
468	TGAACGCTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
469	TGAACCTGCCCGAGCGATAACC	GGTTATCGCTCGCGGCAGGGTTCA
470	GTTCTGCGCGATGAATCAGGACC	GGTCCTGATTCATCGCGCAAGAAC
471	AGGGTACGTGTCGCAGCTCGCGT	ACGCGAAGCTCGCACACGTACCC
472	ACCCCTGCTCCGCCATGTCTCTCA	TGAGAGACATGGCGGAGCAAGGGT
473	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTCAATCCTGTCCC
474	TGTCGTTGCTCCCGAGTACCAATTG	CAATGGTACTCGGGAGCAACGACA
475	GTTGTCCGAGACGTTGTGTCAGC	GCTGACACAAACGTCTCGGACAAC
477	GCTGGTGAACACTCACGAACCGCT	AGCGGTTCGTGAGTGTTCACCAGC
478	GCAGACAGGGCAAATCGGTGCAA	TTTGCACCGATTGCCCTGTCTGC
479	CCCACACAAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
480	GCTTCTACAGCTGGCGTGCTAGCG	CGCTAGCACGCCAGCTGTAGAAC
481	GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCGGCACACATT
482	CCAGCGGAAGTTAGAGCTGTGG	CCACAGAGCTCTAACCTCCGCTGG
483	TTTTTACCGACCCTCATGTCGG	CCGACATGGAGTGGTCGGAAAAAA
484	GCGGCTATGTGATGACGGCCTAGC	GCTAGGCCGTACATCACATAGCCG
485	AGTACACGGCGTGTAGCGCTCC	GGAGCGCTAACACGCCGTACT
486	TCCTGTGTGGTGGCGCACTCCCAC	GTGGGAGTGCAGGCCACACAGGA

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487	CCAACTAACCAATCGCGCGATGA	TCATCCGCGCGATTGGTTAGTTGG
488	AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
489	CATCTTCGCGGGAGTTATTGCGG	CCGCAATAAAACTCCCGCGAAAGATG
490	CTTCGTCCGGTTAGTGCACAGCA	TGCTGTCGCACTAACCGGACGAAG
491	CTCACGAAAACGTGGGCCGAAAT	ATTTCGGGCCACGTTTCGTGAG
492	CGCAGCAGCTGAACCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
493	AGGAGACATACGCCAAATGGTGC	GCACCATTTGGCGTATGTCTCCT
494	ATTGAGAACTCGTGGGGAGTTG	CAAACCTCCGCACGAGTTCTCAAT
495	CTCTTGTAGGCCAGGAGGAGCA	TGCTCCTCCTGGGCCTACAAAGAG
496	GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCCTGCGGC
497	AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGCGTT
498	CTGAGTTGCCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
499	CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
500	CTGACCTTGGGGTTAGTGCCTG	ACCGCACTAACCCCCAAAGGTCAG
501	GGAAATGAGAACCTTACCCAGCG	CGCTGGGTAAGGTTCTCATTTCC
502	AACGCATCGTCCGTCAACTCATCA	TGATGAGTTGACGGACGATGCGTT
503	TGGAGAGAGACTTCGGCATTGTT	AACAATGGCCGAAGTCTCTCCA
505	TTGCGCTCATTGGATCTTGTCAAGG	CCTGACAAGATCCAATGAGCGCAA
506	AGCGCGTTAACAGCACGGAACATT	AATGTTGCCGTGCTTAACCGCCT
507	AGCCAGTAAACTGTGGCGGCTGT	ACAGCCGCCACAGTTACTGGCT
508	CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
509	GGTTGCTCATACGACGAGCGAGTG	CACTCGCTCGTCGTATGAGCAACC
510	GCGCAAATCCACGGAACCCGTACC	GGTACGGGTTCCGTGGATTGCGC
511	ACGCAGTTTATTCCCTGGCTTCT	AGAACGCCAGGGAAATAACTGCGT
512	AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGGTTCT
513	AAAGGAGCTTCGCCAACGTACC	GGTACGTTGGCGAAAGCTCCTT
514	AGTGATTGTGCCACTCCACAGCTC	GAGCTGTTGGAGTGGCACAATCACT
515	GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTAACCCCTCGACGATCGC
516	GGGAGACAGCCATTATGGTCTCG	CGAGGACCATAATGGCTGTCTCCC
517	GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGCAGCGTCTC
518	CCACCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG
519	CGGCATAACGTCCAGTCTGGAC	GTCCCAGGACTGGACGTTATGCCG
520	AAGCGGAACGGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
521	TGCACACTAGGTCCGTGCTTGT	ATCAAGCGACGGACCTAGTGTGCA
522	AGGGAACCGCGTTCAAACCTCAGTT	AACTGAGTTGAACCGGGTCCCT
523	GAATTACAACCACCCGCTCGTGT	AACACGAGCGGGTGGTTGTAATT
524	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTCGTGAGCACTGAA
525	TTAGTTGGCGTTGGGACTTCACC	GGTGAAGTCCCAACGCCAAACTAA

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526	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
527	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTTAACGGTTTCGG
528	TAAAGTAACAAGGCGACCTCCCGC	GCGGGAGGTGCGCTTGTACTTTA
529	TAATGATTTAGTCGCGGGGTGGG	CCCACCCCGCGACTAAAATCATTA
530	GGCTACTCTAACGTGCCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
531	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCCGCCA
532	GGCGTGTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCAACGCC
533	GCCACCTTAGACGGCGCTCTAG	CTAGAGCCGCCGTCTAAAGGTGGC
534	GAGATGTAAACGTGCAGGCACC	GGTGCCTGCACGTTACACATCTC
535	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCACGAGCTA
536	GTGTCGGCGCTATTGGCCTTACC	GGTAAGGCCAAATAGCGCCGACAC
537	CCAGGGAAGCAACTGGTTGCCATT	AATGGCAACCAGTTGCTTCCCTGG
538	TTCCGAAACTAACGCCAGAACCGCT	AGCGGTTCTGGCTTAGTTCGGAA
539	GCAAACCCGGTAACCCGAGAGTTC	GAACCTCGGGTTACCGGGTTGC
540	GCAAATGGCGTCATGCACGAACGT	ACGTTCGTGATGACGCCATTTGC
542	AGTACTTTCGCGCCAGTTAGGG	CCCTAAACTGGGCGCGAAAGTACT
543	AAGATCTCGAGGCATCCGGCTT	AAGCCGGGATGCCTCGCAGATCTT
544	GCAAGTGTATCGCACAGTGCATT	AATCGCACTGTGCGATACACTTGC
545	CCGACAAGGCCTCAATTCTTCTG	CAGAATGAATTGAGGCCTTGTGG
546	GTCTCGTCTCAACTTAAGGCAGC	CGCGCCTTAAAGTTGAGACGAGAC
547	ATCCAGAGATCCGTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
548	GTCACCAGGAGGGAAAGTTACCCC	GGGTGAAACTCCCTCCTGGTGAC
550	TTCCGTCAGGCAGGATCAACCGGAAT	ATTCCGTTGATCCGCCTGACGGAA
551	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
552	TGGGCCGCTTGGCGCTTCATAGA	TCTATGAAAGCGCCAAGCGGGCCA
553	CCTAGCGCGAGCTTACTGACCAG	CTGGTCAGTAAAGCTCGCGCTAGG
554	TTGGCCAGGAATATGGCTCGAGA	TCTCGAGACCATATTCCGGCCAA
555	GTCTCGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGAGAC
556	AACTTGCTCATTCTAACGCCAGC	CGTCGGCTTGAGAATGAGCAAGTT
557	ACGTCAAGCGATTGTGGCAAATAT	ATATTCGCCACAATCGCTGACGT
558	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
559	ATACCTCCGCAGAACCATCCGTT	AACGGAATGGTTCTGCGGAGGTAT
560	AGTCGCGGTCCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAAGT
561	TGCTCAATTGTGCAAGAAACGCC	GGCGTTTCTGCACAAATTGAGCA
562	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCGCGATAA
563	GACGCGACGTGAGTAGTGGAAAGCG	CGCTTCCACTACTCACGTCGCGTC
564	ATGGTAGGGCATTGGCTTCCT	AGGAAAGCCCAATGCCCTACCAT
565	CCAAATATAGCCGCGCGAGACAT	ATGTCTCCGCGCGGCTATATTGG

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566	GCAAACCCTGATTGAATCGTGC	GGGCACGATTCAATCAGGGTTGC
567	TAGCGTCTTGCCTGAAACCATGGG	CCCATGGTTCACGCAAGACGCTA
568	CCACCCCCGACAGCGCTGGACTCT	AAGAGTCCAGCGCTGTCGGGGTGG
569	ACGAGCACTGAAGGCTGCTTACG	CGTAAAGCAGCCTCAGTGCTCGT
570	CATATCAGCGTCGTCTAGCTCGCG	CGCGAGCTAGACGACGCTGATATG
571	TGATCCCAGGGACCGGGTAGACTAAT	ATTAGTCTAGCCGGTCCGGATCA
572	GGCCCCGACACTACAGGGTAATCA	TGATTACCTGTAGTGTGTCGGGGC
573	GGCTCCAGGGCGAGATTATGAATG	CATTCTATAATCTGCCCTGGAGCC
574	CAAAATCCGATGGGCGGAAAATTA	TAATTTCCGCCCATCGGATTTG
575	CACAGGCCATAGGGAGCAAGCTA	TAGCTTGCCTCCATGCGCCTGTG
576	TAGCTATTGCCCGATGGCTACT	AGTAGCCCATCGGGCAATAGCTA
577	TGGTACGCGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
578	GACGCTGTGGCTCGGAAACTGTTC	GAACAGTTCCGAGCCACAGCGTC
579	CCTGGGTTCGCCGCGTGGTAAGT	CAGTTACCACGCCGCGAACCCAGG
580	TTCCCGCGTAGCCAACAGCTATA	TATAGCTGTTGGCTACGCCGGAA
581	TTCGCGGATTGCTGCCGCATAACA	TGTTATGCGGCAGCAATCCGCGAA
582	AAAAATGGCACCGAAGTTGAGGCA	TGCCTCAACTCGGTGCCATT
583	CATTCCCGCGAGTTGAAATCCAG	CTGGATTCAACTCGCGCGGAATG
584	ACGCACGTTTTGGCACGGTTAA	TTAACCGTGCACAAACGTGCGT
585	TGTCCATGACGTCGTTCTCTGGT	ACCAGAGAACGACGTCATGGACA
586	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATAACGAGTCCGACTGAGA
587	CTCCAAACGCACACATCAAGCATC	GATGCTTGATGTGTGCGTTGGAG
588	TTCAACCAAGCGGGGTGGTACCTCGA	TCACGAACACCCCGCTTGGTGA
589	GGTGTGGAGGGTGGTACCTCGA	TCGAGGTACCCACCCCTCCGACACC
590	AGCGCTTTGGTCATGATTGCAA	TTGCAAATCATGACCAAAAGCGCT
591	CCGAGGACTTACGTCGCCAGGA	TCCTGGGCAGACGTAAGTCCTCGG
592	GCCCAATCCAGTTCTATGCC	GGGCGCATAAGAACTGGATTGGC
593	CGGGTTAACCCACGCAAGTTATGA	TCATAACTTGCCTGGTTAACCG
594	TGATTAGCGCTCAATACACCGTG	CACCGGTGTATTGAGCGCTAATCA
595	AAGGGCAGACCTTGGTCACTG	CAGTCGAACCAAAGGTCTGCCCTT
596	GCGCCACAAGATTACATGTCATT	AATGACATGTGAATCTTGTGGCGC
597	GCCATGTTCAAGGGCCTTCGAAG	CTTCGAAAGGCCCTTGAACATGGC
598	CGCGGTGTTGTCTAGGTGCCGG	CCGGCACCTAGACAAAACACCGCG
600	CAACATTGTGGTGGCACTCCATCC	GGATGGAGTGCCACCAATGTTG
601	CGATACGCCGGTTGTTAAATC	GATTTAACAAACCGCGCGTATCG
602	GGCTATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTATAGCC
603	TGGGTAAATCACTATTGCGCGGTT	AACCGCGCAATAGTGATTACCCA
604	GTCTTCATCGGCCCGCGCAAGCTA	TAGCTTGCCTGGGCCATGAAGAC

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605	GCGACACACCCGTACTCTGATGC	GCATCAGAGTACAGGGTGTGTCGC
606	GTAGCAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCAGGACCCCTGCTAC
607	TCGCCAACGCGAGGTAAGTGCAT	ATGGCAGTTACCCCTGCGTTGGCGA
608	ACTCCGAAGCTCGAGCGGCACGA	TCGTGCCGCTCGAAGCTTCGGAGT
609	TCCCGCCCAGTAGACTGACTCGTA	TACGAGTCAGTCTAGTGGCGGGGA
610	ACCTTCTGGGTCGCTACCAATA	TATTGGTGAGCGACCCAGAAGGT
611	ATCATCCCACGGCAGAGTAAAGAG	CTCTTCACTCTGCCGTGGGATGAT
612	CGCTGGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
613	CGGTCTAGAACACTGTCGCAAA	TTTGCAGACTGTTGCTGAGACCG
614	CGAACGTTCTCGATGTAATGGCC	GGCCATTACATCGGAGAACGTTCG
615	ATACCGTGCAGACAAGCCCTCTGA	TCAGAGGGCTTGTGCACGGTAT
616	AGCTCATTCCCAGACGGAACACC	GGTGTCCGTCCTCGGGAAATGAGCT
617	TTTCATGCCGCCGTTGCAAATCAT	ATGATTGCAACGGCCGATGAAA
618	ACTCGAACGGACGTTCAATTCCA	TGGGAATTGAAACGTCCGTTGAGT
619	CTGCATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
620	CCCGCAGTGTGGATGGCGTGTGA	TCAACACGCCATCCACACTCGCGG
621	AATGTGTCGGTCCTAACGCCGGTG	CACCCGGCTTAGGACCGACACATT
622	TAAGACGAGCCTGCACAGCTGCG	CGCAAGCTGTGCAGGCTCGTCTTA
623	GGCGTGGGAGGATAAGACGATGTC	GACATCGTCTTATCCTCCACGCC
624	TGCTCCATGTTAGGAACGCACCAC	GTGGTGCCTCTAACATGGAGCA
625	CGGTGTTGGTCGGACTGACGACTG	CAGTCGTAGTCCGACCAACACCG
626	CCCGCGCGTATCTATCAGATCTGGG	CCCAGATCTGATAGATA CGCGCGG
627	AAAGCATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTTT
628	ACTTGCATCGCTGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT
629	TGCTTACGCGAGTGGATTGGTCAGA	TCTGACCAATCCACTGCGTAAGCA
630	ATGCAGATGAACAAATGCCGAAT	ATTGGCGATTGTTCATCTGCAT
631	GCAATTCTGGCCATGTATTGTC	GACGAATACATGGCCCAGAATTGC
632	AGGGTTCTTACGCGTCGACATGG	CCATGTCGACCGTAAGGAACCC
633	GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
634	TCGAGTCTCACCGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
635	TTATAGCAGTGCAGCCAATGCTCG	CGAACGATTGGCGCACTGCTATAA
636	CGAACAGTGTGTCGCTCAA	TTGAGCGACGGACAGCACTGTTCG
637	TCCCGGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCCGA
638	CATTAGCCCGCTGCGTAAGTGT	ACAGTTACCGACAGCGGGCTAATG
639	GGAAAGAAACTCAGACGCGCAATG	CATTGCGCGTGTGAGTTCTTCC
640	CGACTCGCTGGACAGGAGAATCGT	ACGATTCTCCTGTCCAGCGAGTCG
641	CATGATCCTCTGTTCACCCCGGG	CCGGGGGTGAAACAGAGGATCATG
642	GGCGTAGCGCTCTAAAGCTTCGG	CCGAAGCTTTAGAGCGCTACGCC

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643	AGTGATGCCATCAGGCCGTATAC	GTATACGGGCCTGATGGCATCACT
644	TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTCCATA
645	CTGTGGTTGATGGAGGGATCCACAC	GTGTGGATCCTCCATCAACCACAG
646	ACTCGCTGGAATTGCGCTGACAC	GTGTCAGCGCAAATTCCAGCGAGT
647	CAGGCCGAACCACGCGGTTACAG	CTGTAACCGCGTGGTCGGGCCTG
648	GGCGCAATGGCGCATAAATACTA	TAGTATTATGCGCCCATTGCGCC
649	GGTCAATTGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
651	GATGGTGGACTGGAGCCCTTCCGC	GCGGAAGGGCTCCAGTCCACCATC
652	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCTATTGCGCTATGCGCGG
653	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
654	GCGTTCGCAATTACGGGCCCTTA	TAAGGGCCCGTGAATTGCGAACGC
655	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCGAAACGA
656	AGGTGCAAGTCAAGGCGAGAGGC	GCCTCTGCCCTGCACCTGCACCT
657	CGCCAGTTCGATGGCTGACGTT	AAACGTCAGCCATCGAAACTGGCG
658	GCTTACCGCCGATCCCAGATATC	GATATCTGGGATCGGCGGTAAAGC
659	GTGTTGACGAAGAGGGGAAATGT	ACATTGCGCTTCTCGTCAAGCAC
660	CAGTCGTCGCTTCATGTCTCA	TGAGGACATGAAGCGCACGGACTG
661	TACCGTAAGAGCCTACCCCGCG	CGCGAGGGTAGGCTTTACGCGTA
662	GGCGAGTCTGTGGGACATGTGT	ACACATGTCCCCACAAGACTCGCC
663	CCAAAGCGAAGCGAGCGTGTCTAT	ATAGACACGCTCGCTCGCTTGG
664	GCCGTAGGTTGCTCTCACCGAAC	GTTCCGGTAAGAGCAACCTACGGC
665	AAATCCCGCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATT
666	GGCTTCGACCCGTACCAATTAG	CTAAATTGGTACGGGTGCGAAGCC
667	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGACTCTACA
668	CACTAGTCTGGGCAAGGTGCATT	AATGCACCTTGCCCCAGACTAGTG
669	TGTACTCGGCAGGGCAATAGATT	AATCTATTGCGCCTGCCAGTACA
670	AACGGGTATCGGAAGCGTAAAGC	GCTTTACGCTTCCGATACCGTT
671	CGGACTGCCGTTGCAAGTTGAG	CTCAACTGCAAACGGCAGTCCG
672	ATCGTTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGTGAACGAT
673	ATGCATCGAACTAGTCGTACGGC	GCCGTCACGACTAGTTCGATGCAT
674	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCTTAATGCCTGGAA
675	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTCGCAC
676	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTAGGACGATGAG
677	AATGGCACTTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
678	CCGTGGGAGGGATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
679	AAATTCTCGTTGGTACGGCTCAT	ATGAGCCGTACCAACGAGAATT
680	TTGCTCTTATCCTGTCTGGCG	CGCCCAGGACAAGGATAAGAGCAA
681	TTAAGGATCAGGCGGAGCTTGCAG	CTGCAAGCTCCGCCTGATCCTAA

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682	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTAGTCGCG
683	GCTCGATTCACGGCCC GTTGTTC	GAACAACGGGCCGTGAAATCGAGC
684	AGCAGAGTGC GTTGCAGAGGCTAA	TTAGCCTCTGCAACGC ACTCTGCT
685	TGGAGGTGAGGACCGACGTGCACTA	TAGTGCACGTCGT CCTCACCTCCA
686	AACCGTTAGGGTACATTGCGGT	ACCGCGAATGTACCC TAAACGGTT
687	TATGATCGCTCGGCTCACAGTTG	CAAAC TGTGAGCCGAGCGATCATA
688	GACTTTGCGGAAACGTATGGT	ACCATGACGTTCCGCAAAAAGTC
689	TGTCGGTTATTCCACCTGCAAGGA	TCCTTGCAGGTGGAATAACCGACA
690	CTATGGTTGC ACTGCGCCGTGCA	TCGACGGCGCAGTGCAAACCATAG
691	AGCAGGGAAATTCAATGTTGCA	TGCGAACGATTGAATTCCCTGCT
692	CCTAACCGAGCGCTAGCATTCC	GGAAATGCTAAGCGCTCGGTTAGG
693	CCCGACCC TA ACTCGCATTGAATA	TATTCAATGCGAGTTAGGGT CGGG
694	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAAGCAA
695	GATGCTGCCGTGTTAGTCACG	CGTGA ACTAAACACGGCGAGC ATC
696	TCGGATGACGAGTTCCATGACGG	CCGTCATGGAAACTCGTCATCCGA
697	ATGCGGTCTACTTTCTGATCGGG	CCCGATCGAGAAAAGTAGACCGCAT
698	TTGCGAGGCTAAGCACACGGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
699	AACTTAATTACCG CCTCTGGCGCC	GGCGCCAGAGGCGGTATTAAGTT
700	GTGACCGCGAACTTGTCCGACAG	CTGTCGGAACAAAGTTCGCGGT CAC
701	TGCGGATTACCGATTGCTCTTAA	TTAAGAGCGAATCGGTATCCGCA
702	TGATAGGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
703	TCGCTCCGTAGCGATT CATCGTAG	CTACGATGAATCGCTACGGAGCGA
704	TGTCAGCTGGTAGCCTCCGTTGA	TCAAACGGAGGCTACCAGCTGACA
705	AGCGTCGCATGACCGCTTACGGCAC	GTGCCGTAA CGGT CATGCGACGCT
706	TCACTCAGCGCTGTGACTGCCTGA	TCAGGCAGTCACAGCGCTGAGTGA
707	GTTTGC GCTATAGTGGGGACCGT	ACGGTCCCCACTATAGCGCAAAC
708	GTCGCATTCTGC ACTGGCTCGCC	GGCGAAGCCAGTGCAGAATGCGAC
709	TGATTAGGTGCGGTCCGTAGTCC	GGACTACGGGACCGCACCTAATCA
710	AAGGGACCTTGGGTGACGGCGAGA	TCTGCCGTACCC AAGGTCCCTT
711	TCAAATGGCCACCGCGTGTCA TTC	GAATGACACCGCGGTGGCCATTGA
712	CTCCGACGACCAATAAATAGCCGC	GCGGCTATT TATTGGTCGT CGGAG
713	GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTACGGGAATAGCC
714	TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
715	GACCGCTGTACGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGGTC
716	GCCACAGAGTTTAGCAGGGACCC	GGGTCCCTGCTAAA ACTCTGTGGC
717	CCCACGCTTCCGACCACTGACCT	AGGTCA GTGGTCGGAAAGCGTGGG
718	CATTGACACAATGCGGGACTGAT	ATCAGTCCCCGATTGTGTCATG
719	AGCCACTCGACAGGGTTCAAAGC	GCTTGGAAC CCTGTCGAGTGGCT

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720	CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTGCTCATCCTG
721	CAAGGTATGGTCTGGGCCTAACGC	GCTTAGGCCAGACCATACCTTG
722	GGTGTTCGGCCTAAACTCTTCGG	CCGAAAGAGTTAGGCCGAACACC
723	TTTAGTCGGACCCTGTGGCAATT	GAATTGCCACAGGGTCCGACTAAA
724	CACACGTTCCGACCAGCCTGAAC	GTTCAGGCTGGCGAACGTGTG
725	CTGGACGAACGGCTTCCTCGTAC	GTACGAGGAAGCCAGTTCGTCCAG
726	TTCACAAATCCGCCGAAAACGTGACC	GGTCAGTTTCGGCGGATTGTGAA
727	AACAGGATATCCCGATCACGACA	TGTCGTGATCGCGGATATCCTGTT
728	TACGTCGGATCCATTGCGCCGAGT	ACTCGCGCAATGGATCCGACGTA
729	CATGGATCTCTCGGTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
730	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCGCCTGGCT
731	ATTGGCACGTGTCGTGCCATGTT	AACATGGCACGACACGTGCCAAAT
732	CCCGCGTTGCACCACTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
733	TTGGACGTGACAAGCATGGCGCTC	GAGGCCATGCTGTACGTCCAA
734	CTGAATCGCGCAAGTAAATGGGG	CCCCCATTACTTGCACGATTCAAG
735	GATAAGGTCCACCAAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
736	CTAACAAATTGCCAACCGGGACGGC	GCCGTCCCGGTTGGCAATTGTTAG
737	GGTAACCTGGGTGCTGCAGGTTA	TAACCTGCAAGCACCCAGGTTACC
738	ATCGGAGGCCACCATCGCATTGGG	CCCAATGCGAATGGTGGCTCCGAT
739	GTGAACTGGCTTCCCCAGGATTA	TAATCCTGGGCAAGCCAGTTCAC
740	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
741	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
742	AGTAGTGGCTCCAGATGGCAA	TTGCCGATCTGGAGGACCACTACT
743	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
744	GCATAAGTGCACGGCATCGCGAACGG	CCCTCGCGATGCCGACTTATGC
745	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATTTGTCG
746	TCGCAGTGATTCCCACCGATAAG	CTTATCGGTGGGAATCACTGCGA
747	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCTCGAGTGGACTCGCCTTG
748	GCAACTTGCACGGCATAAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
749	TCCGAGCTTACGTTCGCGACGTC	GACGTGCGAACGTCAAGCTCGGA
750	AGCGCTGGCTGTGCTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
751	TTCATGTCGCTGAGTAACCTCGC	GCGAGGGTTACTCAGCGACATGAA
752	CGAACCGCTAATGCCATTGTCAG	CTGACAATGGGCATTAGCGGTTCG
753	CACGGAAAGGTGGACAAATCGCCG	CGGCGATTGTCACCTTCCGTG
754	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTGTCTCCATCTGTG
755	TTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAA
756	ACGTTACGTTCCGGCGCTCTAA	TTAGAGGCGCCGGAAACGTAACGT
757	TATCGGATTGCGTGGGTTCAATC	GATTGAAACCCACGCAATCCGATA

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758	CTTCCACAATTGTCTGCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
759	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTGTGCA
761	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
762	CTGAAACCGTGCAGATCGAGGTGA	TCACCTCGATTGCACGGTTTCAG
763	CGGTGTTCCCGCGTGTGAAAAAAT	ATTTTTCGACACGCGGAACACCG
764	TCTAGCAGGCCTTTGAATCGCCA	TGGCGATTCAAAAGGCCTGCTAGA
765	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
766	TCTTCTGTCATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
767	GCGGATGAAACCTGAAAGGGGCCT	AGGCCCCTTCAAGGTTCATCCGC
768	GGGGCCCCAAACTGGTATCAAGCC	GGCTTGATACCAGTTGGGGCCCC
769	GCATTGGCTTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC
770	AGGCGGCCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCCGCCT
771	ACACCATGTGCTCCCGCGCTGCAGT	ACTGCAGCGCGGAGCACATGGTGT
772	ACGATGAACATGAATCGGGAGTCG	CGACTCCGATTCATGTTCATCGT
773	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG
774	GTGCCGTATTCGACCTGTGCGTT	AACGCACAGGTCGAAATACGGCAC
775	GCAGTGCGCACTTCAGTTAAAAG	CTTTGAACTGAAGTGCCTGC
776	GCGATTTAACCGATGCCTTGACG	CGTCAAGGCATCGCTAAAATCGC
777	TAGGTGACCTAGGCTTGCTTGC	CCGCAAGCAAGCCTAGGTACCTA
778	CTGGATACCTGCCTGTGCGGCC	GCGCCGCACAGGAAGGTATCCAG
779	CCCCTACGGCTCGTCGTCTATGC	GCATAGACGACGAGGCCGTAAAGGG
780	GCGCTTGGCCGATGCGATGCATTA	TAATGCATCGCATGGGCAAGCGC
781	TTTCTGTAAGCGGCCTGGGTTCA	TGAACCCCCAGGCCGTTACAGAAA
782	GGCTGAGGTGAGCGGTAAAGGATGA	TCATCCTTACCGCTCACCTCAGCC
783	TCTTGGCCTCCCCGATCTAATTG	CAAATTAGATGGGGAGGCCAAGA
784	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC
785	GTAATCCATTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC
786	CAAACCCATTCCAGCAGACGCC	CAGGCCTGCTGGAATGGTTT
787	TAGGAGGAATTGGCATGCGGCC	CGCCCGCATGCCAAATTCCCTCTA
788	ATAGGTAGGATGTGCCGGCTTG	CAACGCCGGGCACATCCTACCTAT
789	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAACGACTTGC
790	CTGGCTGTGCGCATCTCGTAAAC	GTAAACGAGATGCGACACAGCCAG
791	CTAACGTCGTCTCGCGCAATCACT	AGTGATTGCGCGAGACGACGTTAG
792	TTTCATAAACGTTGCCCCGAGC	GCTCGGGACAACGTTATGAAAA
793	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTCGTCCTCCTGCT
794	TTCAAGCACCATCGTGCATCCAA	TTGGATTGCACGATGGTGCTTGAA
795	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT
796	TACATCCCTGCCTCCGTGGCTT	AAGCCCACGGAGGCAGGGAATGTA

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797	CGCTTCGCGTATTCAGTAGCGGTT	AACCGCTACTGAATACCGAAGCG
798	TCGGACGCGTCGACACTCATTATA	TATAATGAGTGTGACCGCGTCCGA
799	TCTGAGCAGGCCAGCGCTCCAGCT	AGCTGGAGCGCTGGCCTGCTCAGA
800	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTCAGGGCTTGGCAATTCAA
801	AGTTTCGCCCTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAAC
802	GTTTCATAGGCCACGCGTGCTAAA	TTTAGCACGCGTGGCCTATGAAAC
803	GGAGCGAAGACTTCGTCTGCCAA	TTGGGCAGACGAAGTCTTCGCTCC
804	ATTGGCCGAGGGTGAATGCAGCCT	AGGCTGCATTCACCCCTCGGCCAAT
805	TGATCCATCCGAATGCTTTCCAT	ATGGAAAAGCATTGGATGGATCA
806	GCACACAGTTGTCTGGCCCATGA	TCATGGCCAAGACAACTGTGTGC
807	CTGGCGGGCAGTGGAAAAAACAC	GTTGTTTTTCCACTGCCGCCAG
808	ATCTCCATGCGTAAGACTGCTCCG	CGGAGCAGTCTACGCATGGAGAT
809	TCTCCTCTCGTCGCAGTCGTGGA	TCCACGAACTGCGACGAGAGGAGA
810	TAGCGTATTCACTCTGCCGAGCA	TGCTCGGCAAGAGTGAATACGCTA
811	CAATAAAAGCCACGGCGCGATGG	CCATCGGCCGTGGCTTTGATTG
812	AGCGTCACCGAATTCAAGCAGATCT	AGATCTGCTGAATTCCGTGACGCT
813	GACTCCCTGTTAATGCGCCCAAGG	CCTTGGCGCATTAAACAGGGAGTC
814	TAGGCACTGCCGGTCAGATTCAA	TTGAATCTGAACCGGCAGTGCCTA
815	AACAGGGTGATAACGGTGGCCAAT	ATTGCCACCGTTATCACCTGTT
816	CGTGCCTACCATGTGTAAGTGCCT	ACGCACTTACACATGGTACGCACG
817	GACCAATTCTACTTCGGCAGCCCA	TGGGCTGCCGAAGTAGAATTGGTC
818	ATCGGACCGATTGCTTTGGCTG	CAGCCAAAGCAAATCGGTCCGAT
819	TCCGCCGAAGCACACGCTTATTG	CGAATAAGCGTGTGCTCGCGGA
820	AACGGTACGCATTGTGAGCAGTGT	ACACTGCTACAATGCGTACCGTT
821	TGGCGACTACTGTTCCCCTGAATC	GATTCAAGGGAAACAGTAGTCGCCA
822	CAGAGGGACAGCCGTATGCCCTA	TAAGGCATACGGCTGTCCCCTCTG
823	CGGTGGTTTATCGGAATCTGCGA	TCGCAGATTCCGATAAAACCACCG
824	TTGGCCTCCGACCTCACGACATAT	ATATGCGTGGAGGTGGAGGCCAA
825	CGTTTCGCTAGCATCTGGCGCCGA	TCGGCGCCAGATGCTAGCGAAACG
826	ACTAAGCGGTGGAGCCGGTGGATG	CATCCACCGGCTCCACCGCTTAGT
827	ATATTGGCTGCGTTACGGGCCGC	CGGGCCCGTAAACGCAGCCAATAT
828	CCGCTATGGTGGCAATCCGATAC	GTATCGGGATTGCCACCATAGCGG
829	GTTGCATGTGGCTCAGGCGGCATA	TATGCCGCCTGAGCCACATGCAAC
830	ATTCTGGGGAGTGAACCCAGGGCTT	AAGCCCTGGGTCACTCCCCAGAAT
831	CTCTCCAAGGAGACGAGCCAATGT	ACATTGGCTCGTCTCCCTGGAGAG
832	GAAAGGACGGGATTGGGGCTAA	TTAGCCCCCAAATCCCGTCCCTTC
833	TATGTAGTACCTGGCTCGCGCCA	TGGCGCGAGCCAAGGTACTACATA
834	TCCCTTCGATGAGCGGCTGTACT	AGTACAGCCGCTCATCGAAAGGGA

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835	TAGATGGGCAGAGCCGTATCTT	AAGATACGGGCTCTGCCGATCTA
836	GGAATGCTTCTGGCTGCCGAGCTG	CAGCTGGCAGCCTAAAGCATTCC
837	ATGGTAGCAACATTCAACGCCAGG	CCTGGCGTTGAATGTTGCTACCAT
838	CTATGAAACGTGTGGCCCAGCAAC	GTTGCTGGGCCACACGTTCATAG
839	ATGTTGCTAGTGCTTCCGGCCT	AGGCCCAGAAGGCACTAGCAACAT
840	CCAATGTGCGCAGACTCAGTCATT	AATGACTGAGTCTGCGCACATTGG
841	GATAGTGCTCGCAAACGGGCCTC	GAAGGCCGTTGCGAGCACTATC
842	GCACCCCTGTTGCCCTATTGAGCGT	ACGCTCAATGAGGCAACAGGGTGC
843	GGCGTGAATAGAGTGACCAGGCGG	CCGCCTGGTCACTCTATTACGCC
844	ACGTGCCAGCTGCCGGACTTTAT	ATAAAGTGCCCGCAGCTGGCACGT
845	AGTGGAAATAGTCGCGTCGTGCCGC	GCAGCACGACGCGACTATTCCACT
846	ACTCGCCTATTACCGCTGGATTGG	CCAATCCAGCGGTAAAGGCGAGT
847	GAGACCGGATTGAGATGATCCCCT	ACGGGATCATCTCAATCCGGTCTC
849	CTGGCAGTTTACCAACCGAACAGT	ACTGGTTCGGTGGTAAACTGCCAG
850	TTACATTGCCGATTCGCATGTGA	TCACATGCGAAATCGGCAATGTAA
851	TAAAACGTAAAGGGTCGCCCTCAGCA	TGCTGAGGCGACCCCTCAGTTTA
852	GGCTTCGCATGCCCTTGCAACATT	AATGTTGCAAAGGCATGCGAAGCC
853	AAGACCGAAGGTCTCTCTGAGGGC	GCCCTCAGAGAGACCTCGGTCTT
854	GCCTATGGCTCCAGCTCAGCAGTA	TACTGCTGAGCTGGAGCCATAGGC
855	CGTATCATAGCGTTGGACAA	TTGTCCACCGAACGCTATGATACG
856	CATGCGCTCGCACTCTGCCGTCT	AGACAGGCAGAGTGCAGCGCATG
857	TGGGCAATTGGAAACGTCGGTCT	AGACCGACGTTCCGAATTGCCCA
858	TTGCGGAGATGCGACGGTACATTG	CAATGTACCGTCGCATCTCCGCAA
859	ACTTCGACGTGATCTGGACTG	CAGTCAGATCGACGTGCGAAAGT
860	CTAACTGCCCGGGCAAACGATTA	TAATCAGTTGCCGCGGCAGTTAG
861	GGCCGCGGATTTATTCCCTGGAT	ATCCAAGGAATAAAATCCGGGCC
862	GAATTGGAACGGTGTCCGATGA	TCATCGGAACACCGTTCAAATTG
863	GTCCATCCATCTACGGCATCAGGA	TCCTGATGCCGTAGATGGATGGAC
864	TAAACGACCTGGCACATGTGCGTA	TACGCACATGTGCCAGGTCGTTA
865	CACCATCCAAGAGCCAATCCTAGG	CCTAGGATTGGCTCTTGGATGGTG
866	ACTCATATACGATCAGTCCGCCGC	CGGGCGGACTGATCGTATATGAGT
867	GTGCCAACCGACGATCAACCGAAC	GTTCGGTTGATCGTCGGTGGCAC
868	TGGGGTTCGTACAGGTGGTTCAT	ATGAACCGACCTGTACGAACCCCA
869	AACAGTAGAGGCAGGGCTGCCGG	CCCGCAGGCCTCGCCTACTGTT
870	TGCATCGAATCCGAGATGGATCTT	AAGATCCATCTGGATTGATGCA
871	GCGTCACGTTATGTCGCTGTGTC	GACAGAGCGGACATAACGTGACGC
872	GGGACATGCGTAGCGCAATATCAC	GTGATATTGCGCTACGCATGTCCC
873	CACACGTCACACCATCCAAAGTGG	CCACTTGGATGGTGTGACGTGTG

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874	ATGCTCAGGTGCTAAATACGGCCA	TGGCCGTATTTAGCACCTGAGCAT
875	AAAAATGTTAGCGCGCTGACTGG	CCAGTCAGCGCGCTAAACATTTT
876	ATAGTCGTTCCGTTCCAAACGA	TCGTTGGAACGGAAACGGACTAT
877	TCGATCTCTGGTTGCAGACCAG	CTGGTCTGCAACCCAGAAGATCGA
878	GTCGGCGCAGCCGATCCTCATGTC	GACATGAGGATCGGCTGCGCCGAC
879	GTTGCGGGGTGTCGAAAAGGATCT	AGATCCTTTCGACACCCCGAAC
880	ATCTCTTCCTCGGGTGGATGCCAG	CTGGCATCCACCCGAGGAAGAGAT
881	TGATGTGCGTTCAGCTTCGCG	CGCGAAAAGCTGAAACGCACATCA
882	GTTAAGGGGTGAGAACATCCGGCC	GGCCGGATGTTCTCACCCCTTAAC
883	AAGTCGTCCCTGCGTCTCGTCC	GGACGAGACGCAGGGAGACGACTT
884	CCGACCTAATAAGGCAGCAACAATG	CATTGTTGCGCCTTATTAGGTGG
885	CATCATTGGCACCGTACCAATGCC	GGCATTGGTACGGTGCCAATGATG
886	TGGAGAAAGGGAAAGTGCAGCAACG	CGTTGCTGCACCTCCCTTCTCCA
887	TGGTACTCCTGTCTGCCTGCCA	TGGCAGGCATGACAAGGAGTACCA
888	GGCACAGGTTCTTGCAGCGCGG	CCGCGCTGCAAGAGAACCTGTGCC
889	GAATCTGGCATTGCTACGAGACC	GGTCTCGTAGCAATGCCAGATT
890	CGAAATGGGAGCGTCCACTACCAC	GTGGTAGTGGACGCTCCATTTCG
891	ACATATGAGCTCGCGTGTGCT	ATGCAAGCACCGAGCTCATATGT
892	TCGAGCACGGTCACTGATAAGCC	GGCTTATCAGTGACCGTGCTCGA
893	GAGGGTCCCTGCTCAGAGTTGGTT	AACCAACTCTGAGCAGGGACCCCTC
894	AAATGCGATGCCCTTATGGAAT	ATTCCATAAGGGCGATCGCATT
895	CTACCCGAATGGATTGCGGATGGC	GCCATCCGCAATCCATTGGTAG
896	AGGGACTGGCAGGTCTTGCAGCGT	ACGCGCAGAGACCTGCCAGTCCCT
897	TAACGATCATTCCACGAATGCAG	CTGCATTGTTGGAAATGGATCGTTA
898	GGCCGCACGTACGATTACGCCCTG	CAAGCGTAATCGTACGTGCGGCC
899	TGGGAATGCATCAGTTGGCT	AGCCAACAACTGATGCATTCCCCA
900	TATCTGGAGTAGCAGGCAGGGCC	GGCCCTGCCTGCTACTCCAGATA
901	CCGAAGGTTCACGCTCAGGTGCG	GCGACCTGAGCGTAAACCTTCGG
902	GAACCCAGCTGGACATCCTTCAG	CTGAAGGATGTCCCAGCTGGTTC
903	TGCATGCGAGCAAATAACCCGGAC	GTCCGGTTATTTGCTCGCATGCA
904	AATTGTCCGCCAACGCTTTCA	CTGAAAAGCGTTGGCGGACAATT
905	GTCGGCTTCGAGCGATCGAGTGTG	CACACTCGATCGCTCGAAGCCGAC
906	TCGCGTGCTCTACGTAGCCATGA	TCATGGCTACGTAGAGCACCGA
907	GGCTTCCCGATAACGTAATTGCG	GCGAATTACGTTATCGCGGAAGCC
908	TGTAGCCGACTAGGGCCGAAGCCC	GGGCTTGGCCCTAGTCGGCTACA
909	AAGCGAACGCCCTGGCTGAATATT	AATATTGAGCCAGGGCGTTGCTT
910	TGTACGCGACGTGCTGCAGATT	AAATCTGCAGCACGTGCGTGACA
911	CCGTGTCCGTGTTGTCGACAGGGCG	CGCCTGTCGACAACACGGACACGG

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912	CCCCACACGTTGCGCCTATATGTG	CACATATAGGCGCAACGTGTGGGG
913	GGCGGGCACAACTCAACACAGATG	CATCTGTGTTGAGTTGTGCCCGCC
914	CGACTGCGGGATCACCGGTGATTA	TAATCACCGGTGATCCCGCAGTCG
915	TCGGGACATGACCGGTACGGAGTC	GAECTCCGTACCGGTATGTCCCAG
916	TACCTCGAGTGGCCGTTGATCGGG	CCCGATCAACGGCCACTCGAGGTA
917	TAATTCATGGGGCTAGCCGAACCA	TGGTCGGCTAGCCCCATGAATT
918	ACACTCTAACGCCATTCCGTTCA	TCGAACGGAATCGGCTTAGAGTGT
919	GTGGCGTGAGTGACACGACAAA	TTTGTGCGTGTCACTCACGCCAC
920	ACGACTCCTCGGGCAAAGTACGTA	TACGTACTTGGCCGAGGAGTCGT
921	TGTGGTCATGGCGCTACTGTTTC	AAAAACAGTAGCGCCATGACCACA
922	CTTCGCTAGCCAGAGCGGGTCC	GGAACCCGCTCTGGCTAGCGAAAG
923	ACAGGGCGTGTAGCGTGTGACAA	TTGTCACACGCTAACACGCCCTGT
924	GGTACTTCCGGCGTATCGGGCCAC	GTGGCCCGATAACGCCGGAAAGTACC
925	GTGGGTTTTGTTACCCCTCTGGG	CCCAGAAGGGTGAACAAAACCCAC
926	ACGCAATTCCGCATTACTTACCCG	CGGGTAAGTAATGCGGAATTGCGT
927	CGCCTCGACTGCGGTCAAGCACAA	TTGTGCTTGACCGCAGTCGAGGCG
928	GTGAAATGGATCCAGAGAGGGCCA	TGGCCCTCTGGATCCATTTCAC
929	TATAAACGCTGCAGGGCTCCGTTA	TAACGGAGCCCTGCAGCGTTATA
930	GTTATTCAAGCGGGTTGTAACGGG	CCCGTTACAAGCCGCCTGAATAAC
931	GGGTTCTAGCGTGCCTCGTTAGTT	AACTGAACGCGCACGCTAGAACCC
932	TTGGGCTCGAGCGGTACACCACTA	TAGTGGTGTACCGCTCGAGCCCAA
933	CCGTCTTCAGGACAACGGTATGCG	CGCATACCGTTGTCCTGAAGACGG
934	GGACCCTTGACAGATTGCGGCAC	GTGCCGCAATCTGTCAAAGGGTCC
935	TAAATTATCGCCAGGCGGCGCT	AGCGCCGCCTGGCGATAAAATTAA
936	GCCGAACGCAAGATCGCTGAAC	AGTTCAAGCGATCTTGCCTCGGC
937	TAGGCCATTGGTGCCCTAACGACGG	CCGTCTAGGGCACCAATGGCTA
938	CAAACCACAGCTTACAGGCTCGT	ACGCAGCCTGTAAGCTGTGGTTG
939	TAAACGGAGACTGGCACGGTAGCA	TGCTACCGTGCCAGTCTCCGTTA
940	TAGCGCGCATCACACTTGGAAATCG	CGATTCCAAGTGTGATGCGCGCTA
941	TGCTGACACAAACGAGCCGTTCG	CGAAACGGCTCGTTGTGTCAGCA
942	CGCTTAACGGCATTGACTGTCCAC	GTGGACAGTCAATGCCGTTAAGCG
943	TTCCACGGCCGTGATTACGGATA	TATCCGTAATACACGGCCGTGGAA
944	TTTATGCCGTTGCCGAGGAAGACT	AGTCTCCTCGGCAACGGCATAAA
945	AGTGCCGAGATAGGGACTGGCG	CGCCCCAGTCCCTATCTCGGCACT
946	CTAGTCTCCACGCCCTCGGGACGA	TCGTCCCGAGGGCGTGGAGACTAG
947	CCGCCATTCGGAAGATGGATGATG	CATCATCCATCTTCCGAATGGCGG
948	TGACGGTGAAAGTCGATTGCGAAG	CTTCGCAATCGACTTACCGTCA
949	ATATGCGTCACCACCCGGTCCGA	TCGGAACCGGGTGGTGACGCATA

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950	CCATCAGTGAAGGGGTTGCTGCCA	TGGCAGCAACCCCTTCACTGATGG
951	CATATGTGCTTGGCTTGCATGAC	GTCATCGCAAGCCAAGCACATATG
952	TCTGCTTGGAAAGCCTGAAGTCT	AGCAGTTCAAGGCTTCCAAAGCAGA
953	CGATTTGGTCAAGAAGGCGGAAAT	ATTTCGCCTTCTGACCAAATCG
954	ATCAGAGGCCTCCCGCCTCGTTA	TAACGAGGCAGGAAGGCCTCTGAT
955	ATTGTTGTCGTTGCCACATCGCAG	CTGCGATGTGGCAACGACAACAAT
956	TGAAATGTGTCTGGACGCGAGTCT	AGACTCGCGTCCAGACACATTCA
957	GCGGGCGATGCTCCTAAAGGGTA	TACCCCTTAAGGAGCATGCCCGC
958	CCGCAATCTCCATGCGTCGACCCT	ACGGTCGACGCATGGAGATTGCGG
959	TGCCCGTAATCACCTGGAACTTG	CAAGTTCCAGGTGATTACGCGGCA
960	TTCCAGTAGCCAGCGGTAGTGTGA	TCACACTACCGCTGGCTACTGGAA
961	CTGAATTCCGCCTATTGTTGGCA	TGCCGAACAATAGGCGGAATTCAAG
962	GCTTGAACCTCGAGGCATGTTCT	AGAACATCGCCTCGAGGTTCAAGC
963	CAAGCGTGGAAAGTACGACCCGCA	TGGCGGGTCGACTTCCACGCTTG
964	GTGTGCACTGGATCCGAGCCCTAG	CTAGGGCTCGGATCCAGTGCACAC
965	TCCCCTGGGCTAGCATTGCGAGGTT	AACCTCGCAATGCTAGCCCAGGGA
966	AGAACCAAAGACGCTTGGTGCCTG	CGGCAAACAAGCGTCTTGGTTCT
967	CGTCACATGCAAACGTTCCCTCCC	GGGAGGGAACGTTGCATGTGACG
968	TGACCGCATGTATTGAGTCGCT	AGCGACTCAATACACATGCGGTCA
969	GCGGGCCCAATGAGTATCCGTCT	ATGACGGATACTCATTGGCCCGC
970	TAGTGAUTGTGAACGCCCCCTGGTT	AACCAGGGCGTTCACAGTCACTA
971	GGCACCGTCTGCCCGCGTATATC	GATATACGCGCGGCAGACGGTGCC
972	TCGATGCAGTCTTTCCCCTCAA	TTGACGGAAAAAGACTGCATCGA
973	ACCCCGTGGGTTTCGCCATTTC	AAAAATGGCGAAACCCACGGGTT
974	CTACACGCGCAGTTGTACTTGTG	CACAAGTCACAACGTGGCGTGTAG
975	CGCAGCGACCTCATCTGGAGCC	GGCTCCAGAGATGAGGTCGCTGCG
976	CGACCCAGCACTCCTAAATCGGT	ACCGATTTCAGGAGTGTGGTCG
977	ACGCGCCGCTCATCACTACAATCT	AGATTGTAGTGTGAGCGCGCGT
978	CGCAACTCCGTGGCAAAGCCAG	CTGGCTTGCACAGGAAGTTGCG
979	TCGTTGGGACATAAGGCAACTGA	TCAGTTGCCTTATGTGCCAACGA
980	CCGCTTGTAAATTGCCATTCTCCGT	ACGGAGAATGGCAATTACAAGCGG
981	GTAACCAGGGAGTCCTGGGCTGTG	CACAGCCCAGGACTCCCTGGTTAC
982	AGCGCAAGATCTGGGGCAGTCAC	GTGACTGCCAGATCTTGCCT
983	GCGTACATCTGCTCATCAGCATGG	CCATGCTGATGAGCAGATGTACGC
984	CCTCTGTGGCAGGAAAGAAACCGT	ACGGTTCTTCCCTGCCACAGAGG
985	CCTATGCAATGGACCTGCATCGGA	TCCGATGCAGGTCCATTGCATAGG
986	CTCGGTGGATGGCGAATAAGGATA	TATCCTTATTGCCATCCACCGAG
987	CCTCACTCGTGTGGCGTGACGCA	TGCGTCACGCCATCACGAGTGAGG

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988	TACGCTCACAGAACGCCATACGCC	GGCGTATGGCGTTCTGTGAGCGTA
989	CCGGAGAACGTTACGCGGATCGGAC	GTCCGATCCCGCGTAACCTCTCCGG
990	GCGCCCTCACTGCATTTTGGTAT	ATACCAAAAATGCAGTGAGGGCGC
991	ACTTTCAGCACGCGAACAGCGCAA	TTGCGCTGTTCGCGTGTGAAAGT
992	CTAAACGCCCTTGATGCATGAGCA	TGCTCATGCATCAAGGGCGTTAG
993	GCTTGCCTTTACGATCGTCGCTA	TAGCGACGATCGTAAAGGCAAGC
994	CAGACATCGTACGCACTCGGCATC	GATGCCGAGTGCAGTACGATGTCTG
995	TAGCCGCGCGGCTCCTATGCTTT	AAGAGCATAGGAGCCGCGCGGCTA
996	GATGCCCTTTGGTCCCCATGCCA	TGGCATGGGACCAAAAGGGCATC
997	TGAGCTGCCCTGCCACGATGCCTC	GAGGCATCGTGGCAAGGCAGCTCA
998	CCGCGTATACGTGCCATAGTTG	CAAACATGGCACGTATACGGCGG
999	TAGTGCTCCCGCGCTCATCCAAC	GTTGGATGAGCGCGGAGAGCACTA
1000	CCCTAGATAAGTTGGGTGGGACG	CGTCCCACCCAACTTATCTAGGG
1001	TGAAGGGCCACCTGATATGGTTTC	GAAACCATATCAGGTGGCCCTTCA
1002	GCCGCCTCCGACTGGTTAACCGA	TCGGGTTAACCAAGTCGGAGGCAGG
1003	CGCACGGCTACTAACAGCGGATCA	TGATCCGCTGTTAGTAGCCGTGCG
1004	CCGGACCAATTCCAACGAGCATCG	CGATGCTCGTGGAAATTGGTCCGG
1005	CATTGAGGTCCACCGTTACATCC	GGATGTGAACGGTGGACCTCAATG
1006	AGGACGCAGCATGTCCCAGCCGAG	CTCGGCTGGGACATGCTCGTCCT
1007	TAATCGCGGCCATACTACCAACG	CGTTGGTAGTATGGCCCGCGATTA
1008	CGCAAATTCTCCGGTCGGCAAGC	GCTTGCCGACCGGAGAAATTGCG
1009	GTGGCTGACTAATGCCCTGCGTG	CACGCAAGGCATTAGTCGAGCCAC
1010	TGTGGCGTGTCCGGCTACTGT	ACAGTGAGCCGGAACACGCCACA
1011	GTTCTCCCTTCTCGGGTGGAA	TTCCCACCGCAGAAAAGGAAGAAC
1012	ACCTCGAGTCAGATTGTGCGCCTT	AAGGCGCACAACTGACTCGAGGT
1013	CAAGTGGACAGACGGTTGTTCCG	CGGAACAAACCGTCTGTCCACTTG
1014	TCCAGTTGAGTCGCGCCGACGAGG	CCTCGTGGCGCGACTCAACTGGA
1015	CGAACACAGGTCAGCCCTATTG	GCAAATAAGGCTGACCTGTTGCG
1016	GCCGTGACTCCTGCAATGTCGGTA	TACCGACATTGCAGGAGTCACGGC
1017	ATCAGCGCAAGCTGGTCTGAAACA	TGTTTCAGACCAAGCTGCGCTGAT
1018	CCCTGGCCAGAACGAGAGGCCATG	CATGGCCTCTCGTTCTGGCCAGGG
1019	ACGATCAAGGACTCGTCAGGGTTG	CAACCCGTACGAGTCCTTGATCGT
1020	TTCATGGCACCAAGACCACCGTTA	TAACGGTGGTCTGGTGCATGAA
1021	ACAGCAAGGAGATGGATTGCGACG	CGTCGCAATCCATCTCCTTGCTGT
1022	CGTAAATATCTCGCGCGGTGTGAA	TTCACACCGCCCGCAGATATTACG
1023	GGAAACACGTGTTCGTGTGTC	GCCAACAGACGAACACGTGTTCC
1024	CGATGTTAGGATTGGATAGGCCA	TGGCCTATCCGAATCCTAACATCG
1025	ATCGGACAAGGACAAGTGGATGGT	ACCATCCACTTGTCCCTGTCCGAT

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1026	GCCCCGAGGACAAAGTCGAGTTA	TAACTCGAACTTGTCCTCCGGGC
1027	AAATCCGACAAATGGGCACATGGA	TCCATGTGCCATTGTCGGATTT
1028	CAGTTAGGGGATGCGGATGAGTGA	TCACTCATCCGCATCCCCTAAGTG
1029	CGGCAGGTGGAGATTCCGACATTG	CAATGTCGGAATCTCACCTGCCG
1030	TAGGGCAGGCCAGGTTCACTCATCT	AGATGAGTGAACCTGGCTGCCCTA
1031	GCACCGTATTAGCAGTAGGCACGC	GCGTGCCTACTGCTAATACGGTGC
1032	ACGCATTACAGGTGTGCGAAGGGA	TCCCTTCGCACACCTGTAATGCGT
1033	CGTGAUTGCACGTGTTCCACAGGG	CCCTGTGGAACACGTGCAGTCACG
1034	GCTGAACTACCGCCTAAATCGCG	CGCGATTTAGGCGGTAGTTCAAGC
1035	AGCACGCCAGGGAGGATCGAGTTA	TAACTCGATCCTCCCTGGCGTGCT
1036	ATGAGGGCAAGGAATGGGTATGCA	GCATGACCCATTCCCTGCCCTCAT
1037	GGGTCTCTCGTAATCAAAGGCCGA	TCGGCCTTGTATTACGAGAGACCC
1038	TATCTTGCACACGCCCTCCATTAA	TAATGGAGGCGTTGCGCAAGATA
1039	GGTTACACCTACGGAATCCAGCGG	CCGCTGGATTCCGTAGGTGTAACC
1040	ACACCGAGTTGGTCCGGTCAATAG	CTATTGACCGGACCAACTCGGTGT
1041	TCCCAAGATTAAACGCTAGCCACCG	CGGTGGCTAGCGTTAACCTGGGA
1042	TTGGTGAACACTGGCCCGTCGGAAG	CTTCCGACGGGCCAGTTACCAA
1043	CCAGGGGAGTTGACAATGAGGCTG	CAGCCTCATTGTCACACTCCCTGG
1044	TCTCGTTATTGGACCGTTGTCG	CGACAAACGGTCCAATAACGCAGA
1045	TATGGGATGCTAAACCGGCGTACA	TGTACGCCGGTTAGCATCCATA
1046	CACAGACGTCTGTCGGCTTGTGT	ACACAAGCCCACAGACGTCTGTG
1047	AGAATGCCGTTGCCACTCCCGT	ACGGGAGTAGGCGAACGGCATTCT
1048	CGACGGATAATGCAGGCCTCATGA	TCATGAGGCCTGCATTATCCGTG
1049	ACCCCTAAAGCAATAGGTGGCG	CGCCGACCTATTGCTTAGAGGGT
1050	CACTCACGGCAGAACGCTGCTGT	ACAAGCAGGCTTCTGCCGTGAGTG
1051	ATCAGCCCACATATTCTGGCCGT	ACGGCCGAGAATATGTGGCTGAT
1052	CAAATCTGGGTCGTCTAACGC	GCGTTAGGACGACCCCCAGATTG
1053	TGTCGCCCATGGCAGGTTAAATAC	GTATTAAACCTGCCATGGCGACA
1054	GGGGGCCCATCAATTCTATTATCGA	TCGATAATGAATTGATGGGCCCC
1055	GTCGAGCAGCTTACTATCGCGGG	CCCGCGATAACTAAAGCTGCTCGAC
1056	CCGCTAACGACCGAAGGCTCACAA	TTGTGAGCCTTCGGTGCTTAGCGG
1057	TAGAATTAGCGAACGGTATCCCG	CGGGATCACCGTTCGCTAATTCTA
1058	CACATGACATTGGCAAAGGTCCA	TGGACCTTGCCTAACATGTATGTG
1059	TCAACGCACGGCGATGACTAGAT	ATCTAGTCATGCCAGTGCCTG
1060	CGGGAAATGTCTTAGCCGTCGAA	TTCGACGGCTAAAGACATTCCCG
1061	ATCAGAGCAAATCTGCAGCGGGGA	TCCCCGCTGCAGATTGCTCTGAT
1062	GGCCTGTTCTGTCCAATGGGCT	AGCCCAGTTGGACAGAAACAGGCC
1063	ATTCACCTCGCTATCGCTTCCG	CGGAAGCGATCAGCGAGGTGAAAT

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1064	AGTGACGCCGAGTCGCGAGGGTTA	TAACCCCTCGCGACTCGGCGTCACT
1065	AGTTGTCTCATCCTGTCCGGGACC	GGTCCCGGACAGGATGAGACAAC
1066	CTTCTTGTGCACACTGCCAGGG	CCCTGGCAAGTGTGCACAAAGAAG
1067	CACCTCATCGGAGCATAGCAACCC	GGGTTGCTATGCTCCATGAGGTG
1068	ATGCGATCCATGACAAGGGTTGCT	AGCAACCCATTGTCATGGATCGCAT
1069	CCCGTGGAGATGATGTGCGGCTTA	TAAGCCGCACATCATCTCCACGGG
1070	CCCAATAGACGCCACAGCCAGTGA	TCACTGGCTGTGGCGTCTATTGGG
1071	AACGACCACGACCCCTGCCGAGTA	TACTCGGCAGGGTCGTGGTCGTT
1072	GGTGCTTGTCTGAGGCGAGTGA	TTCACTCGCCTCAGACAAAGCACC
1073	CTGTCGGCGCTGCTCTCGAATT	AAATTGGAGAGCAGGCCGACAG
1074	CTCGCCGGAGTGTGTAAGCATTG	CAATGCTTACAACACTCCGGCGAG
1075	AGCAATCATGAGAGGTGGCCGGTG	CACCGGCCACCTCTCATGATTGCT
1076	ATTTGCCACCGCGACAAAAGAT	ATCTTTGTCGCCGGTGGCAAAT
1077	CCGCCC GTTGGCATGTCTTTG	CAAAAGACATGCCAACACGGGCGG
1078	ATCGGAAGTGCTGACTGACACACG	CGTGTGTCAGTCAGCAGTCCGAT
1079	CCTCAGACCCATCTGGGTTGACG	CGTCAACCCAGATAGGGTCTGAGG
1080	CTGTGTGGCTGGTCCGGCTTTC	GAACAGCCGGACCAGACCACACAG
1081	GTCCCCATTATCGGTGAGTGCAAC	GTTGCACTCACCAGATAATGGGGAC
1082	ACAGGCACGTAAGTGCTCAATCGG	CCGATTGAGCACTTACGTGCCTGT
1083	AGCAAGATAGCGGGAGTGCCCCTA	TAGGGGCACTCCCGCTATCTTGCT
1084	GGTTTACGCCATGACATCCGTCA	TGACGGGATGTCATGGCGTAAACC
1085	GTGCAGGCCTTGTGTGAATCG	CGATTCACACACAAAGGCCTGCAC
1086	CTTCGAGGGTAGGGCTTCGAAACG	CGTTTGAAGCCCTACCCCTCGAAG
1087	AGTCGACACTTGGTTTACACGG	CCGTGGTAAACCCAAGTGTGACT
1088	ACATAAATCTGCCCGCTGCACTC	GAGTGCAGCGGGCGAGATTATGT
1089	GTTTGGTTTCCACGGAGGTTGA	TCAAACCTCCGTGGAAAACCAAAC
1090	GCAGGAACCAGATTAGTGTCCGG	CCGGGACACTAATCTGGTTCTGC
1091	TTGCTAGAGCGCGAGCTAAAGC	GCTTAGCTCCCGCCTAGCAA
1092	CTATGTGGCATCGCTGACATGCTC	GAGCATGTCAGCGATGCCACATAG
1093	CCTAAGTCGGTTGCAGCTGCTCT	AGAGCAGCTGCAAACCGACTTAGG
1094	GCGTCGTCCACAGGAACGGAAGG	CCTTCCGTTCTGTGGACGAACGC
1095	TAACCCCGCCCGAGAAATTGTCT	AGACAATTCTCGGGCGGGTTA
1096	TATGGTGCTCAGAGCTGTTGCCAA	TTGGCAACAGCTCTGAGCACCATA
1097	TCATCGACCCACTAACGTCAGGGC	GCCCTGACGTTAGTGGGTGATGA
1098	TGCTCAAGCTACGCGTCACTTCCC	GGGAAGTGACGCGTAGCTTGAGCA
1099	AGCGGGAAAGGTCTGAGGAGGGAAA	TTTCCCTCCTCAGACCTCCCGCT
1100	CCGATGTAGCACCACCGCAGTGGC	GCCACTGCGGTGGTGCTACATCGG
1101	AAGTTCTGGGAATCACACGGCGCG	CGCGCCGTGTGATTCCAGAACCTT

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1102	CACCAAGCCTTACGTGCGGCGTTAA	TTAACGCCGACGTAAGGCTGGTG
1103	CGTTTCGCCTCCTCTTCCGAATGC	GCATTCGGAAGAGGAGGCAGAACG
1104	GAGGAGGCCAATAGAGCAGCGCGC	GCGCGCTGCTCTATTGGCCTCCTC
1105	AGTAATCTTGCAGCACACAAGCGG	CCGCTTGTGTGCCGCAAGATTACT
1106	TGAGGACAAACCGCGCGTAGGATA	TATCCTACGCGCGGTTGTCTCA
1107	TCGTAGAGACGCAGTGCCCATCTC	GAGATGGGCACTGCGTCTACGA
1108	CGAAGCTACACCCCCGAGTGCAGTG	CACCGCACTCGGGGTGTAGCTTCG
1109	ATGATGTGATCTTCCCATTGGCTGG	CCAGCCATGGGAAGATCACATCAT
1110	TGTACACGTATCGCGTTCGCCTAG	CTAGGCGAACCGCGATACGTGTACA
1111	GGTGTGCTTTACGCATGTACGCA	TGCGTACATGCGTAAAAGCACACC
1112	AGGCGGGATACTGGATGCTAGCC	GGCTAGCATCCACGTATCCGCCT
1113	AAATTAGGCACAGCCCTCCCACAG	CTGTGGGAGGGCTGTGCCTAATT
1114	ATAAGTTGGTAGGCCATTGCGA	TCGCGAATGGCTCACCAAACCTTAT
1115	CCTATTCGGCGGACCTCGATGCC	GGCATCGAGGTCCGCCGAAATAGG
1116	TTACCGGAATATGCACTGGCCGC	GCGGCCAAGTGCATATTCCGGTAA
1117	CCTCTCGGACGGTCCCTTGATCG	CGATCAAAGGGACCGTCCGAGAGG
1118	CAAGCGAATGCTGTATTACGGCCT	AGGCCGTAATACAGCATTGCTTG
1119	GCATTTCCCATGCCAGAACGTTGA	TCAACGTTCTGGCATGGAAATGC
1120	GTGTTGGCTAACCGTCCTGCCCTG	CAAGGCAGGACGGTTAGCCAAAC
1121	AGGTTTGTCGGGCGAATGATGT	ACATCATTGCCCGGACAAAACCT
1122	ATGTCCACGAGTGCCTCGATATC	GATATCGGACGCACTCGTGGACAT
1123	AGACCGTACGAGGGTTCTGCGCC	GGCGCAGAACCTCGTACCGTCT
1124	AATACCGTCCCCATCTGTGCGAGG	CCTCGCACAGATGGAACGGTATT
1125	ACACAAGGTGCCTCATCGAATGGT	ACCATTGATGAGGCACCTTGTGT
1126	GCCGGCAAAATCCTACAAAATCCA	TGGATTGTTGAGGATTTGCCGGC
1127	CTTATCCCATGTGCCGGTCTGACT	AGTCAGACCGGCACATGGATAAG
1128	GCGGCCATAATGCATAGCACGGAA	TTCCGTGCTATGCATTATGCCGC
1129	TACGGTGCATCGCAGTATGGTAA	TTACCCATACTGCGATGCACCGTA
1130	CACCAAGATGTCGAGGATCATGCC	GGCGATGATCCTCGACATCTGGTG
1131	GCTCCTACGCCAAAGAGGTATGG	CCATACCTCTTGGCGTAGGAGC
1132	AGAATATGGCAGCAGCAGCACTC	GAGTGCTGCTGCTGCCATATTCT
1133	CTGCAGTCGCACGCAGTAGACCCG	CGGGTCTACTGCGTGCAGCGCAG
1134	ATGTCCCTGACCGGAATCTTCCA	TGGAAAGATTCCGGTCAGGGACAT
1135	TTCGCCACGAGGCATTAGTCCGAC	GTCGGACTAATGCCTCGTGGCGAA
1136	ACGTCGTTCCCGAGAATACGGTCT	AGACCGTATTCTCGGGAACGACGT
1137	ATCCGCTGGCGCTTGTGAGAAAGAA	TTCTCGTCAAAGCGCCAGCGGAT
1138	TGAACCAAATTCTTACCGCGTGG	TCCACCGGTAAGAATTGGTTCA
1139	CACCGTAGGCTGGTGTGTCATT	GAATGACACACCAGCCTACCGCGT

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1140	TCGATCCCGCGATCTGGCCTATTG	CAATAGGCCAGATCGCGGGATCGA
1141	GGAACACTCAACCACCGTGGATCT	AGATCCACGGTGGTTGAGTGTTC
1142	TCACACACCAACTGGCCACAGATG	CATCTGTGGCCAGTTGGTGTGTGA
1143	TGTGCTTAGGACACCAGGCAACCC	GGGTTGCCTGGTGTCCCTAACGCACA
1144	GACATTTAACCGACCGATTGTGC	GCACAATCGGTGGGTTAAATGTC
1145	GGCACCGAGCCAGTAGGCCTCTGA	TCAGAGGCCTACTGGCTCGGTGCC
1146	CTCAAGCGTGATGTTGGTAACCA	TGGTTACCAACATGCACGCTTGAG
1147	AGGAAGGCCACCATCCAATATTG	CGAATATTGGATGGTGGCCTTCCT
1149	TACGAACGCCAAGGTTATGCCAAT	ATTGGCATAACCTTGGCGTTCGTA
1150	CGCACCAAGAGTTATGCAGGCTCAA	TTGAGCCTGCATAACTCTGGTGC
1151	CCAGCTTGGACGAGGAAGGATGTG	CACATCCTCCTCGTCCAAGCTGG
1152	GTCACGCCTTCAAATGACCCACA	TGTGGTCATTGAAAGGCGTGAC
1153	TGCTAGACCCAGCCGAGTCTCGG	CCGAGACTCGGGCTGGGTCTAGCA
1154	TATTGTGGCACTTGGGTCCAGTGC	GCACTGGACCCAAGTGCCACAATA
1155	CACGTGTGAGACCGGAAGTGCATC	GATGCACTCCGGTCTCACACGTG
1157	GGCAGCCTGATGCTACAGCACCGT	ACGGTGCTGTAGCATCAGGCTGCC
1158	CGGTCCGTCATCCTTCAGAGTTA	TAACTCTGAAGGATGGACGGACCG
1159	CTATTGCGGACCCATCGCAGTTT	AAACTGCGTAGGGTCCCGAATAG
1160	ACCTGTGCAGTCAGCACGAGTGC	CGCACTCGTGTGACTGCACAGGT
1161	GAGAACACAGGTGGTCCACCCCTA	TAGGGTGGACCACCTGTGGTCTC
1162	CCTCGCTAGAGAAATCCACGGGAT	ATCCCGTGGATTCTCTAGCGAGG
1163	TAACATCGGTGCAAACCGTGGCGC	GCGCCACGGTTGCACCGATGTTA
1164	ACCCAGAAGACATGGCATTGCCT	AGGCGAATGCCATGTCTCTGGGT
1165	AAAAGCGCTGCTTAACACCGCCG	CGGCGGTGTTAGAGCAGCGCTTT
1166	CAAGTCTGCCATTCCCCAACGGT	ACCGTTGGAAATGGACAGACTTG
1167	CCGACACATGGTGGCTTTTAAG	CTTAAAAAGCCCACCATGTGTCGG
1168	ACAGACCAGCTTGTGCGCAGATT	AATCTGCGAAAAAGCTGGTCTGT
1169	CGGCGATCCATTCACCTCAAAGT	ACTTGAAGTGAAATGGATGCCG
1170	GACGTTATCATGACACAGGTCGCG	CGCGACCTGTGTGATGATAACGTC
1171	GGCAGAGTTGGATCGGATCCTCAA	TTGAGGATCCGATCCAACCTGCC
1173	CCTCAATGCCACCGAATTGGTAT	ATACCGAATTGGTGGCATTGAGG
1174	GGAGTTAGCGTGATTAGTCGCCA	TGGGCGACTAATCACGCTAACTCC
1175	GAACTCGACGTGTCACGGAGGGT	ACCCCTCCGTGACACGTCGAGTTC
1176	CACAAGCGACATTTCTGGTGCACG	CGTGCACCAAGAAATGTCGCTTG
1177	CCAGAATGCGTGAATTGCGTCCT	AGGACGCGAATTACGCATTCTGG
1178	CAAGGGAGCCCTGCGAATTAGAGT	ACTCTAATTGCGCAGGGCTCCCTG
1179	ATTCTTGCTTCGGACGACTAGCCG	CGGCTAGTCGTCGGAAGCAAGAAT
1180	TGCCACTTGATTCCAGATTGCC	GGCAATCTGGAAATCAAAGTGGCA

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1181	GATGGTCGGCAGATAAGTGGTGGG	CCCACCACTTATCTGCCGACCATC
1182	GTTCACACGGGTTGACCAACATGT	ACATGTTGGTCAACCCGTGTGAAC
1183	GATTCAATTGCCCCATTCCCTGCAT	ATGCAGGAATGGGCATTGAATC
1184	TACCGGAAACTGAGCCTCGTGCTA	TAGCACGAGGCTAGTTCCGGTA
1185	GGATCTTACTCAGGGGCAGAGCC	GGCTCTGCCCTGAGTAAAGATCC
1186	CGCGAGTGCTTGTTCTGTGTGGA	TCCACACAGAACAAAGCACTCGCG
1187	GTCGTCGCGATGGCGTACATCCTT	AAGGATGTACGCCATCGCGACGAC
1188	ACGGGAATCTCCCGAAGTGCAGC	GCTCGCACTTCGGAGATTCCCGT
1189	GGTCGAAATGAGCCAGCAGCAGAT	ATCTGCTGCTGGCTCATTGACCC
1190	CCATTGGAATACTGCGTGCAGGCTT	AAGCCGCACGCAGTATTCAATGG
1191	GGAAGACTTCGCGAGGGCACAATG	CATTGTGCCCTCGCGAAGTCTTCC
1192	AGGGTGACTTCGAAGGTCCGAACT	AGTTCGGACCTTCGAAGTCACCCCT
1193	TCGTCCTCTGGTGGTGAATCAC	GTGATTGACCAACCAGAGGGACGA
1194	TGTGCAAATTATGCTGGCGTGAG	CTCACGCCAGCATAATTGACACA
1195	GTCGCCAACTGTCATGTGTGCCA	TGGGCACACATGACAGTTGGCGAC
1196	CCTCGAACCTCAAGACGAAACGA	TCGTTCGTCTGAGGGTTCGAGG
1197	CTTCATCACGTGACCTTGTTGCC	GGCAACAAAGGTACGTGATGAAG
1198	CCTTCATTCCCAGCAGGATGGCTT	AAGCCATCCTGCTGGGAATGAAGG
1199	CGGGGACCTCAATGGAGCGTCTTA	TAAGACGCTCCATTGAGGTCCCCG
1200	CGCCTCTAGCGCTTGTACGTGA	TCGACGTAACAAGCGCTAGAGGCG
1201	CTGCCAGACTCAAAACAGGGACGG	CCGTCCCTGTTTGAGTCTGGCAG
1202	CTCCTTACACCGTGTGAGGGAAAC	GGTTCCCTCACACGGTGTAGGAG
1203	TTTCATGCCATATGCCCTCGCGCA	TGCGCGAGGCGATATGGCATGAAA
1205	GTCTGACTGTCTGCCCTGTATGCG	CGCATACAGGGCAGACAGTCAGAC
1206	GGTTAATGGAACGGCGTTACGCG	CGCGTTAACGCCGTTCCATTAACC
1207	CTTCGCACTGCGGAATCTCAAGCT	AGCTTGAGATTCCGCAGTGCAG
1208	TGCCAGAGGCGTAGGAGTCTGGGA	TCCAGGACTCCTACGCCCTGGCA
1209	GACGGGCGAGCCAGTATTAACCTA	TGAGTTAAACTGGCTGCCCGTC
1210	GACCTCCAAAGTCAGTCTGGCGG	CCGCCAAGACTGACTTGGAGGTC
1211	CGTTAGAGCATGACCGAACACGTC	GACGTGTTGGTCATGCTCTAACG
1212	GTGGGCTAAAAATTGGGTACGCC	GGCGTACCCAAATTGGAGGCCAC
1213	GGGGCAGAGATCACCGCTCCCT	AGAGGAACCGCGTGTCTGCC
1214	TTTCGCCCTACGAAGCGAAGTTTC	GAAACTTCGCTCGTAGGGCGAAA
1215	TACGGGGTGATGTTAAGCTACGCG	CGCGTAGCTAACATACCCCGTA
1216	CCTGTGAGTCTGAGATGCCGTGT	ACACGGCGATCTCAGACTCACAGG
1217	ACTGAAGCTGGAACAGGCCATTG	CGAATGGCCTGTTCCAGCTTCAGT
1218	AGCACTGGTTCACATGGGAGTCCA	TGGACTCCCAGTGAACCAGTGCT
1219	TAAGGAAGATCACACTCCCTGC	GCGCAGGGAGTGTGATCTCCTTA

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1220	CACCAACACGCTAAATTGAAGCCG	CGGCTTCATTTAGCGTGTGGTG
1221	GCTGTCGCCAGGATCATGTATCGT	ACGATACATGATCCTGGCGACAGC
1222	TTCGTTCGTGCACTGGATTCTGA	TCAAGAATCCAGTGCACGAACGAA
1223	TCAGCTCTCCTTGTGCTTGCAGTG	CACTGCAAGCACAAGGAGAGCTGA
1224	ACGACGAGGTGAACCTCGTGGGAA	TTCCCACGAAGTTCACCTCGTCGT
1225	AGCATTGCCGCCGGCTTGGTTA	TAAACCAAGGCCGCCGGCAATGCT
1226	CAGAGGGCAGATGTGACTCCTCAA	TTGAGGAGTCACATCTGCCCTTG
1227	CGATATTCAGCCTCTCAAACGCG	CGCGTTGAGAGGCTGAAATATCG
1228	TGCCAGAAATGTTGCCGATTGAA	TTCGAATCGGCAACATTCTGGCA
1229	TAGGCCACCCGGTGTTCACAATT	GAATTGTGAACACCGGGTGGCTA
1230	GAGAGTCAGACCGAGGGACACGAG	CTCGTGTCCCTCGGTCTGACTCTC
1231	GAGGCAGTCCTGGAACCACGCAAC	GTTGCGTGGTCCAGGATGCCTC
1232	CCAGAGAGGCGGGCTACTGACTCA	TGAGTCAGTAGCCCCGCTCTCTGG
1233	CACACAGTCCCATCGTACGGCAGT	ACTGCCGTACGATGGACTGTGTG
1234	TTACGTTGCCGAAGCGTGCCTCTA	TAGAGGCACGCTTCCGCAACGTAA
1235	ATGTACACGCTGCAATCGTGTCCC	GGGACACGATTGCAGCGTGTACAT
1236	ACTCGTCGTCGGAAGCGCCCAGGT	ACCTGGCGCTTCCGACGACGAGT
1237	ATGCGAGAGCAGAAATTGAGCCGGT	ACCGGCTCAATTCTGCTCTCGCAT
1238	AAGTTGGTTGTATTACGCGTGC	GCACCGGTGAATACGAACCAACTT
1239	TGGGCTTATGCCGAAGATTGCTA	TAGCAATCTCGGCGATAAGCCCA
1240	CAACGGCGAAGACCCAGAATTAA	AAAAATTCTGGGTCTCGCCGTTG
1241	AGCGTACGGCGAAAGTCTAGGGAC	GTCCCTAGACTTCGCCGTACGCT
1242	ATGCATCCAGCGTCCCCCTGATTA	TAATCAAGGGGACGCTGGATGCAT
1243	ACCGTCATCAGTCGCAGGCTCTG	CAGAACGCTGCGACTGATGACGGT
1244	TCTTGACGGCTGGGATGATTGGA	TCCAATCATGCCAGCCGTCAAGA
1245	TTAACATTGGACCCAGGACCTGG	CCAGGTCTGGTCCGAATGTTAA
1246	TGGTGTGAAACTCCCTGCGTGT	AACACGCAAGGGAGTTCGACACCA
1247	TACTCCAGTCGCCTGCGCGAAC	GTTTGCACGCGCAGGCGACTGGAGTA
1248	CGCAATGCCGTAAAGCATGCCAAC	GCTTGGCATGCTTACGGCATTGCG
1249	AGTCCCGCGAAATACGAACAGTA	TACTGTTGTATTCGCGCGGACT
1250	ATGTTGACCGCGACTGTATCACA	TGTGATACTGCGCGTGCACAT
1252	ATCGCCTAACTACCCGCCGGTGC	GCACGCCGCCGGTAGTTAGGCGAT
1253	TGGCCAGGGAACACAAGCTCGGT	TACCGAGCTTGTGTTCCCTGGCCA
1254	AAACATGGGTCGCGTCTGAGATCA	TGATCTCAGACGCGACCCATGTT
1255	GCGAGAGCTGCGATTCCCTTTAG	CTAAAAGGGAAATCGCAGCTCTCGC
1256	CCGGCCAAACAAGAGACGAGCGGA	TCCGCTCGTCTTGTGTTGGCCGG
1257	AATGGGGCACAGTCTCGCTTGACA	TGTCAAGCGAGACTGTGCCCTT
1258	TGTCTCGGCCCTCAGGACACACT	AGTGTGCTGAAGGCCGAGACA

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1259	TCCACCTTCATTAAGTGGTCGGC	GCCGAACCACCTAATGAAGGTGGA
1260	GCTTCGGAATCATCCACCTGTCAT	ATGACAGGTGGATGATCCGAAGC
1261	GAGCCGATGGGCTATCGTCGTCGG	CCGACGACGATAGCCCATCGGCTC
1262	CACGAATTACGCACGCACAGAGGA	TCCTCTGTGCGTGCCTAATTGCGT
1263	GCTGTGACGCTCCCCTCAACTAGG	CCTAGTTGAGGGGAGCGTCACAGC
1264	CGCTCTGAAAACGCAGGGCTACGTT	AACGTAGCCCGCGTTTCAGAGCG
1265	GAGTGCTGGACACCGTAGCCAGGA	TCCTGGCTACGGTGTCCAGCACTC
1266	CCAACCCCAGTGTAGGCGCAAATG	CATTTGCGCCTACACTGGGGTTGG
1267	GAAGTAGGGGATGTTGGCCGGCGG	CCGCCGGCCAACATCCCCTACTTC
1268	CAACGTGGCACCTGTTAGCAG	CTGCTAAAACAGGTGCCACGTTG
1269	CTAGCTGCGATCCGAACCTCTACG	CGTAGAGGTTGGATCGCAGCTAG
1270	CATTGAACCATCAGCCAAGCTGCG	CGCAGCTGGCTGATGGTTCAATG
1271	AGACTGGCAATTTCGAGGCCAA	TTGGCCTCGAAAAATTGCCAGTCT
1272	CTGGCCGTCCATGAGTTGGTCCAG	CTGGACCAACTCATGGACGGCCAG
1273	CATGCTGAAACACGGGATTGCCAT	ATGGCAATCCCGTGTTCAGCATG
1274	CGATATGTAAGACAGCCGTGCAA	TTGCGACGGCTGTCTTACATATCG
1275	AGCGTAACCTACTGGGAAGGCACC	GGTGCCTTCCCAGTAGGTTACGCT
1277	GTTCGAACCCCGCGATGTTAAATG	CATTTAACATCGCGGGGTTGAAAC
1278	GTTGTTAGGAGGCTCGAGGCTGCT	AGCAGCCTCGAGCCTCTAACAAAC
1279	ACTGGTGCTACGCGGGATATTGA	TCAAATATCCCGCGTAGCACCAGT
1280	CTGGGAGCTATCCTCAGCGAACATC	GATTGGCTGAGGATAGCTCCAG
1281	GAACTCGCCGCTGCCGAAGGGTAG	CTACCCCTCGGCAGCGCGAGTT
1282	TTCGATCGAGGAGCAAGGAGAGTC	GAECTCCTTGCTCCTCGATCGAA
1283	GGGGAAAATTGAGGCCTAGCCAT	ATGGCTAAGGCCTCAATTTCCTCC
1284	CTAAGGTCAAAGCGCTGTCGCCAG	CTGGCGACAGCGCTTGACCTTAG
1286	CCGTAGCGGTGCTCGACCAGGTTC	GAACCTGGTCAGCACCCTACGG
1287	TGGGGACGAATCCGAATGTAGTGA	TCACTACATTCCGGATTGTCCTTCA
1288	GTCATGTAATTGCATCCCACGGGT	ACCCGTGGATGCAATTACATGAC
1289	CTTTCGCGGGTGGTCAATAAAAG	CTTTTATTGACCACCGCGCAAAG
1291	CTCGGGGATGCCCTTGGCATT	TAATGCCAAGAGGGCATCCCCGAG
1292	CGAAACGTGGTGCAGAAACCTGAA	TTCAAGGTTCTGCACCACGTTCG
1293	GGAGTTACGAGTCGAGCAGTCGC	GCGACTGCTCGACTCGTAACCTCC
1294	AGCCGTTTCAAAGATCTCGACGA	TCGTCGAGATCTTGAAAACGGCT
1295	TGGCTGGACATTGTCTGCAATGCA	TGCATTGCAGACAATGTCCAGCCA
1296	ATCGGCTGCCTCAGTCCCTAATT	AAATTAGGGACTGAGGCAGCCGAT
1297	CCAGCATGGAGTTAAGTGAGCGCG	CGCGCTCACTTAACCTCCATGCTGG
1298	TTCATATTACGAATGCCGGGTGC	GCACCCGGCATTGTAATATGAA
1299	CGAAATCGCACAGGAATTCGCGTC	GACGCGAATTCTGTGCGATTCG

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1300	GGCAATTCGGGACACTCGTTCA	TGAAACGAGTGTCCCAGAAATTGCC
1301	TTTGTGATGGGGTATAACCGA	TCGGGTTATACCCCCAATCACAA
1302	CCCAGCTAATCCAGCTGGCTGT	ACAGCCCAAGCTGGATTAGCTGG
1303	AAAATCGTTGGCTGAACGTCGC	GCGACGTTACAGCCAAACGATTT
1304	AGGAGATTCATCGACTTCCGGAA	TTCCCGGAAGTCGATGAATCTCCT
1305	GCACGGGTCTCAATGCTAGGGT	ACCCCTAACGATTGAGACCCCGTGC
1306	GCGCAACAAAGTAGCCTACCGAGGC	GCCTCGGTAGGCTACTTGTGCGC
1307	TAGCAGGCTGATGCCGTACACA	TGTGTAGACGGCATCAGCCTGCTA
1308	GCAAGCGGCATCGTACAACCTGT	ACAAGTTGTACGATGCCGCTTGC
1309	GCACCTCTGGTAAGCCTGAAAGGG	CCCTTCAGGCTTACCAAGAGGTGC
1310	CGAGGGCGGTGAGTCATACCGTG	CACGGTATGCACTACCCGCCCTCG
1311	GGATTAACCGGAAC TGCCCTCTG	CAGAAGGGCAGTCCGGTTAATCC
1312	GATATTGGGTCCGGCGCGCATTAC	GTAATGCGCCGGGACCCAATATC
1313	GGCCTTAAATCTCCGGTCGCAATG	CATTGCGACCGGAGATTAAGGCC
1314	AACCTTAGTGC GGCTAGGTGGGGT	ACCCCACCTAGCCGACTAAGGTT
1315	CACGCTGACGCCAGTGTGGTGAGG	CCTCACCAACTGGCGTCAGCGT
1316	GGTCCCTTGACCCACCGAATTGA	TCAATTGGTGGGTCAAGGGAAACC
1317	TTCTGACAACATCGACCCCTGGCTC	GAGCCAGGGTCATGTTGTCAAGAA
1318	GCGAGCGAAGATAATCCCCAAACT	AGTTGGGATTATCTCGCTCGC
1319	GTACTCTGTGCAACGGTCCCAGT	ACTCGGGACCGTTGCACAGAGTAC
1320	ACACGCCAGGAACAGTGTCTGTGA	TCACAGACACTGTTCTGGCGTGT
1321	AAGGGAAATTAGCGCGCTGACTT	AAGTCACGCGCGCTAAATTCCCTT
1322	TGACGTACCGCTTTAAGTGGGA	TCCCCACTAAAACGCGTACGTCA
1323	CTTAGAGGGACGAGGCCATGAATG	CATTCATGGCCTCGTCCCTCTAAG
1324	GGACGACTCCGCAAAAAAGGTCGT	ACGACCTTTTTGCGGAGTCGTCC
1325	TCAATCCCAACATCCAAAGCCTCA	TGAGGCTTGGATGTTGGATTGA
1326	GCACTGGTCTACCAAGCTTGTCCC	GGGACAAGCTGGTAGACCAGTGC
1327	ACTTGTGGAAACGAGACCGAGCA	TGCTCGGTCTCGTTCCGACAAGT
1328	TCAGGAAAGGCCTAAAGGCCAG	CTTCGCCTTAAAGGCCCTCTGA
1329	GGAATGTAGTCAGGAGGACGGGG	CCCCGTCCCTCCTGACTACATTCC
1330	GCACGTGGTAAATGAATTGGCGAG	CTCGCCAATTCTTACACGTGC
1331	GATCATCAGGGTTATCGCTCGCG	CCGCACGCATAACCCCTGATGATC
1332	CTCACTCATTCTGATTGCCCGCG	CCGGCGGCAATCAGAATGAGTGAG
1333	GGGGTGATCTCTCGAACGTCACCC	GGGTGACGTTCGAGAGATCACCC
1334	AAGGTTGCTGCTAGCGTACCTCGA	TCGAGGTACGCTAGCAGCAACCTT
1335	TATAGATGCCAACAGGCAGGAG	CTCCTGCCTGTTGGCGATCTATA
1336	GTTGGACCTGTTGGAGTGGCA	TGCCCACTCCAACAGGTCAAAC
1337	ATTGGGGAAAACCCGGTCTCAAGG	CCTTGAGACCGGGTTTCCCCAAT

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1338	TCGACGATAAAAGTGCTCACGGAC	GTCCCGTGAGCACTTATCGTCGA
1339	CGATAGAATTCAATGCAGGGCGGA	TCCGCCCTGCATTGAATTCTATCG
1340	CGGTCGCTACGGCGGCTGGTTTC	GAAACCAGCCGCCGTAGCGAACCG
1341	CCAGGTTCGGTTAGTCGCGCTAG	CTAGCGCGACTAACCGAAACCTGG
1342	ACGACCTTACACTCGGATCCGACG	CGTCGGATCCGAGTGTAAAGTCGT
1343	TCGCGTTAAATGGACCAAGGGGCC	GGCCCTTGGTCCATTAAACGCGA
1344	CCAGAAAGAAAATGGCGCCCGAT	ATCCGGCGCCATTTCCTTCTGG
1345	GATACATGCCGCCTGCTAGGCAC	GTGCCTAGCAGGCGGCATGTATC
1346	GAGATCACACTCGGAAACCGGATG	CATCCGGTTCCGAGTGTGATCTC
1347	ACTTCGCGGAAAAAGGCTGGCATT	AATGCCAGCCTTTCCCGCGAAGT
1348	CCGAGCTGCACGAGCACAAAAGT	ACTTTGTGTGCTCGTGCAGCTGG
1349	TTCCACAAGGCAGGCATAGTGAGGC	GCCTCACTATGCCGCCTGTGGAA
1350	AGCAAACCTGAATCCGAAAAACC	GGTTTTCCGGATTCCAGTTGCT
1351	CGCTATGTCGCAGCATGCATTAC	GTAAATGCATGCTGCGACATAGCG
1352	AGTCACGCCAACGTCGGTTCTT	AAAGAACCGACGTTGGCGTGACT
1353	AGTGGGCGCACTGGCCTAAATA	TATTTAAGGCCAAGTGCGCCCACT
1354	ACTTGCAACTCGGCCGTTGACT	AGTCAAACGGCCGAAGTTGCAAGT
1355	CAAACATCAGGTTCATGCCGTACG	CGTACGGCATAACCTGATGTTG
1356	AGCGTGACCACCCCTACAATGGCAA	TTGCCATTGTAGGGTGGTCACGCT
1357	GCAGGCATCCGGCAGAGATGTCTC	GAGACATCTGCCGGATGCCTGC
1358	GAGCGGCTAAGAGGCCAGACAAA	TTTGGTCTGGCCTCTAGCCGCTC
1359	CACAGAACAGGGTGTTCGGCCTA	TAGCGGGAAACACCCCTGTTCTGT
1360	ACTTGCAAGGCCAACACAAG	CTTGTGTTGGCCTCTGCAAAGT
1361	CCTTCCTGGTACTTGTGGCGAC	GTCGCCACAAAGTACCAAGGAAGG
1362	CTACATGCTCACCCCCACCAGAGTG	CACTCTGGTGGGTGAGCATGTAG
1363	ATTTTCAGAATAGCCCCGCCTCGA	TCGAGGGCGGGCTATTCTGAAAAT
1364	CAATTGCTACGTTGACGCCCTTG	CAGAGGGCGTCAACGTAGCAATTG
1365	CTGTCGCCTAACCTCGGTGGCG	CGGCCACCGAGGATTAGGCACAG
1366	TTTGTGTTGGCTCCGTACATTGGA	TCCAATGTACGGAGCCAACACAAA
1367	ACGTGACGGGAAGGTGGTTGAATC	GATTCAACCACCTCCGTACGT
1368	AGTTCTGCGTTGCACGAAACAGA	TCTGTTCTGTGCAACGCAAGAACT
1369	GCTCGCCGCGCGTCTTATGTCTG	CAGACATAAGACGCGCGGCGAGC
1370	ATGAACATCGCGAGGCAAGCCTT	AAAGGCTTGCCTCGCGATGTTCAT
1371	CAACCGCGCCCACCAACATTAAGG	CCTTAATGTTGGTGGCGCGTTG
1372	TGATCGAGGACGGCTGGTAGCCT	AGGCTACCAAGCCGTCTCGATCA
1373	GGAGGCATGCCCTCCGAGAGCAAC	GTTGCTCTGGAAAGGCATGCCTCC
1374	CACCGATCCTCAACGCAATTGCTA	TAGCAATTGCGTTGAGGATCGGTG
1375	GGCCATGAATTGGGAAATCCATGT	ACATGGATTCCCAATTGATGGCC

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1376	CTGTTCCAGGCGTAACCAGCGGGC	GCCCCGCTGGTTACGCCCTGGAACAG
1377	TATGTCTGGCTGCCATCAGAAGA	TCTTCTGATGGCGAGCCAGACATA
1378	GGAGTGACCAGCACAAGCATCGAG	CTCGATGCTTGTGCTGGTCACTCC
1379	TCGGACTGGAAGTAACTCGCATGA	TCATGCGAGTTACTTCCAGTCCGA
1380	GTAGGGTCAAGCACGATTGAAGCC	GGCTTCATCGTGCCTGACCCCTAC
1381	CACCGGCGGTTGACTAACGTGAC	GTCACGTTAGTCGAACCGCCGGTG
1382	GAATGACGCGCAGTGCATTGAAC	GTTCAAATGCACTGCGCGTCATT
1383	GTGCTCGTCAACCGCGGATAGAG	CTCTATCCGCGGTTAGACGAGCAC
1384	GCGGACCTGGGTTAATTGACGCGC	GCGCGTCAATTAACCCAGGTCCGC
1385	TTTTGATGTTGCGCACCGGGCTA	TAGCCCCGTGCGCAACATCAAAAAA
1386	TTGCGTCAGCGCATCTGCTCGATT	AATCGAGCAGATGCGCTGACGCAA
1387	ATGAGCACGCCAGTTCGTTCTT	AAAGGAACGAACTGGCGTGCTCAT
1388	TCAACGGTAAAGAACATGCCCGCA	TGCGGGGCATTCTTACCGTTGA
1389	CGCGATTGACTGAACCACACCTCT	AGAGGTGTGGTTAGTCATCGCG
1390	GCGTGAAGAGATGACGGCCGGTATA	TATACCGGCCGTATCTTCACGC
1391	CATGATTCCACCTCGATCGGCTAG	CTAGCCGATCGAGGTGGAATCATG
1392	CTACGACAAAGCAACCGTGAAAAA	TTTTGCACGGTTGCTTGTCTG
1393	ATGCCGTGTTCATCTTGATGGTCC	GGACCATCAAGATGAACACGGCAT
1394	TTCGTGGAGGGACTTGGAGATCC	GGATCTCCAAAGTCCCTCCACGAA
1395	GAAGCGCCGTAACGTACACCGTCG	CGACGGTGTACGTTACGGCGCTTC
1396	AGCGTGCCTGGCTATAAGGCTA	TAGCCTTATAGCCAAGCCACGCT
1397	ACAGTCAGGAGTAACGCCGCTCAA	TTGAGCGGCCTTACTCCTGACTGT
1398	TTTAGCCGCTGCGACTGTAGGAAA	TTTCCTACAGTCGAGCGGCTAAA
1399	ACTGTGTCGCAATCAACCCGCAA	TTTGCGGGTTATTGCGACACAGT
1400	TGCAGCCAATGCGGAACCTAGAGG	CCTCTAAGTCCGCATTGGCTGCA
1401	CCCGCTATCCCGGTCTGCGAGTTC	GAACTGCAAGACCGGGATAGCGGG
1402	GAGGGCGCAACATATGCAGTGCTG	CAGCACTGCATATGTTGCGCCCTC
1403	CGTACGGACATCGATGACGCAACG	CGTTGCGTCATCGATGTCCGTACG
1404	AGTCTCCGAGAAACGCATAAGGC	GCCTTATGCGTTCTCGGGAGACT
1405	AGGAAGTGGATGAACGCGGCTGCA	TGCAGCCGCGTTCATCCACTTCCT
1406	GGGTTGCTCACCCCTCGTCATCAGG	CCTGATGACGAGGGTGAGCAACCC
1407	TAGGAATGCGAGTCCGGCGGTAA	TTACCGCCGGAACTCGCATTCTA
1408	CTCCTCACTTCCAAGCTGCGGATA	TATCCGCACTTGGAAAGTGAGGAG
1409	TCAATAGCACCTAGCATGCTCCG	CGGGAGCATGCTAGGTGCTATTGA
1410	TGATTCCCTGCGCTTCACAGGTG	CGACCTGTGAAAGCGCAGGAATCA
1411	GTATGTGCGGGATGGAAATCACGC	GCGTGATTTCCATCCGCACATAC
1412	TACGGCAACTGTGCGATACGAGGGC	GCCCTCGTATCGACAGTTGCCGTA
1413	GGTTCCCTATCCAGCACTCCTCGC	GCGAGGAGTGCTGGATAGGGAACC

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1414	ATAAGCGCGCCACAGGTATGTACC	GGTACATACCTGTGGCGCGCTTAT
1415	GAAAGTCGCCAACAGACTCGAGCA	TGCTCGAGTCTGTTGGCGACTTTC
1416	CGCTAATGCCCTCATAGGCGTGTGC	GCACACGCCATTAGGCATTAGCG
1417	ATCCCCGCCGCACGAAGTACCAAG	CTTGGTACTTCGTGCGGCCGGGAT
1418	GACGCTGCTGATGGCTTATCGAT	ATCGATAAAGGCCATCAGCAGCGTC
1419	CTCTCCCCGTCGCTTCAGAGATTA	TAATCTCTGAAGCGACGGGGAGAG
1420	TCATGTGGGCCGTCGTATCAGTT	AAACTGATACGACGGCCCACATGA
1421	GGCCTGAAGGTGAATGGTTACGTG	CACGTAACCATTACCTTCAGGCC
1422	AGCCTCCAAAGCCGGTAGAGTTCC	GGAACTCTACCGGCTTGGAGGCT
1423	TTGTCGTAGGCGCTCACCTAGGA	TCCTAAGGTGAGGCCCTACGACAA
1424	GCCTGAGTCCGGGTCGGGAAAGAA	TTCTTCCGACCCGGACTCAGGC
1425	GGCACTATACCGTTCTGGACGCG	CGCGTCCAGAACCGGTATAGTGCC
1426	CCGTGTATACGAAAGGTACGCCA	TGGCGTACCTTCCGTATACACGG
1427	CCCAAGGCAAGTGTGCATCAGTCC	GGACTGATGCACACTGCCTTGGG
1428	GGAGTGCATCATGGCCAAATCTGG	CCAGATTGGCCATGATGCACTCC
1429	CCATGTTACGTCTGCGCACACAG	CTGTTGGTGCAGACGTAACATGG
1430	GGCGTTGAGCTTAAAGCAGCGAC	GTCGCTGCTTTAAGCTAACGCC
1431	TTGGCACTCTGCAAGATACTGGG	CCCACGTATCTTGCAGAGTCCAA
1432	GATCTGCACTGCAAGGTCTTGGG	CCCCAAGACCTTGCAGTCAGATC
1433	CGATCAACTTGCAGGCCATTCTGC	GCAGGAATGGCCGCAAGTTGATCG
1434	CGGCTGGGTACAGAAACGAGTA	TACTCGTTCTGTGACCCAGCCG
1435	GCGGCTAGTTGTACCTAGCGGCTG	CAGCCGCTAGGTACAACTAGCCG
1436	TCGTCACTGTTAGAGAGGCCCTCG	CGGAGGCCTCTAACAGTGAACG
1437	AGTTCGTGAGCCCTAGCGCGCT	AGCGCCGCTAGGGCTACGACACT
1438	AGGACGCAGGGATTCAAGTGCAAC	GTTGCACTTGAATCCCTGCGTCCT
1439	ACCGATGCGCGGTCGGTCTCATAC	GTATGAGACCGACCGCGATCGGT
1440	GGCAGAGGGTTAGGGGGTTTTTT	AAAAAAACCCCTAACCCCTTGCC
1441	GGCAAAGGGTGTATGGGAGACC	GGTCTCCCATAAACACCCCTTGCC
1442	ACAAGGCTCGGCTGGCAGAACAT	GTATTCTGCCAGCCGAAGCCTTGT
1443	CATATCCGTTCCATGCCAGACG	CGTCTGGCGATAGGAACGGATATG
1444	AAGCCTTGTGGCCAAGGCCCGT	ACGCGGCCCTGGCCACAAAGGCTT
1445	CCGAACCATTGGCTTATCCAGTGT	ACACTGGATAAAGCCATGGTCGG
1446	GTTCAGCAGTAGCTCCCTCCTCGA	TCGAGGGAGGGAGCTACTGCTGAAC
1447	GCGCAGTGACACCATGATGCTTC	GAAAGCATCATGGTGTCACTGCGC
1448	ACGATCCATTGCCAGCATGCAA	TTGCATGCTGGCAAAATGGATCGT
1449	TCCCTTCATTTGGGTTTAGCC	GGCTAAAAACCCGAAATGAAGGGA
1450	TCTTCTTGGCCACATTCCCTTTG	CAAAGGGAAATGTGGCAAGAAGA
1451	TGCCCTTGATTGGTGGTCACGGT	ACCGTGACCACCAATCAAAGGCA

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1452	GACCCTCACGGTCATCAGAGGGAG	CTCCCTCTGATGACCGTGAGGGTC
1453	CCGTTAACACACAGTGATACACGCG	CGCGTGTATCACTGTGTTAACCGG
1454	CACCAAGGGATAGGTGCGGTACGC	GCGTACCGCACCTATCCCCTGGTG
1455	GGTCGGAACGTGATCTGTGCGATCC	GGATCGCACAGATCAGTCCGACC
1456	TGCTCCTTCTAGGGTCATCCGTG	CACGGATGACCCCTAGGAAGGAGCA
1457	GTGGACTTTGACGCCGGTACCGC	GCGGTAGCCGGCGTCAAAGTCCAC
1458	CTGATCTGTCGGCGGTTACTGCC	GGCAAGTAACCGCCGACAGATCAG
1459	AGAGGAGCGGAAAAACCGGACGA	TCGTCGGTTTTCCGCTCCTCT
1460	GCGACGAAGAGATCCAGCAAGCTC	GAGCTTGCTGGATCTTCGTCGC
1461	GGGACTTCAGCTGAGGGACGAAA	TTTCGTCCTCAGCTGGAAGTCCC
1462	GGCGCACTCCAATACCCACTGTT	AAACAGTGGGTATTGGAGTGCGCC
1463	GCGCTGGAGACTGTCAGGACGTG	CACGTCCCTGACAGTCTCCAAGCGC
1464	CAAACCGCTGGTTCTCCACCTGT	ACAGGTGGAGAAACCAGCGGTTG
1465	GCGATTGCTTGGGATCGGTGACTA	TAGTCACCGATCCCAAGCAATCGC
1466	CTCAGCGACATTTCTGGTGGCG	CGCCACCCAGAAAAATGTCGCTGAG
1467	CAGCGGCGTCGTTACTCAGGACT	AGTCCTGAGTAAACGACGCCGCTG
1468	GACAGCCGTGAACGCTCAGCCGTT	AACGGCTGAGCGTTACGGCTGTC
1469	GGGCCGTAGAGGCATCGGGTAAAG	CTTTACCGATGCCCTACGGCCC
1470	CGCCGCTCACCTGCTTAAAGCATT	AATGCTTAAGCAGGTGAGCGGCC
1471	TGCCAAATCGCAACTCTTGAGACA	TGTCTCAAGAGTTGCGATTGGCA
1472	CCCCGATCGGGTGTATTCTCCCT	AGGGAGAATTACACCCGATCGGGG
1473	CAAGGTCCAGGTGACGCAACCACT	AGTGGTTGCGTCACCTGGACCTTG
1474	CGAGCCTTCAGTGGTATGCATGCG	CGCATGCATACCACTGAAGGCTCG
1475	CAGCAGCGTGCCCATCTGACTTA	TAAGTCGAGATGGGCACGCTGCTG
1476	CGGACCAAGATGGCAGTAATCCAG	CTGGATTACTGCCATTTGGTCCG
1477	CTACCACGCTCTGCGCGGCTGTA	TACAGCCCGCCAGAGCGTGGTAG
1478	ACGTGGTTAGGCATGAGCTGCGTC	GACGCAGCTCATGCCCTAACACGT
1479	CGACATATCCGACATGACCGGATG	CATCCGGTATGTCGGATATGTCG
1480	GCGCCCAGGCTGTGTTAGAAAATA	TATTTCTAACACAGCCTGGCGC
1481	AGCTGGACTCCGGACCTTGAGTG	CACTCAAGGTCCGGAGTCCCAGCT
1482	CGGTCGTAACCGCTGCTACAACCT	AAGTTGTAGCAGCGGTTACGACCG
1483	TCGTTCTCTGGAACAATTGAGCA	TGCTGAATTGTCAGAGGAACGA
1484	CGGCATCTCCGGACAAAGGTTAAC	GTAAACCTTGTCCGGAGATGCCG
1485	TATCTTGTGAGCGCCACTCGGAG	CTCCGAGTGGCGCTGACAAGATA
1486	TGCAAGGGAGAAAGCCCCATGAGC	GCTCATGGGGCTTCTCCCTTGCA
1487	ACTGCATAGCCCAGATCCGCTTGC	GCAAGCGGATCTGGCTATGCAGT
1488	TGTGATTCACTGAGCAAGGCG	CGGCCTGCTCGACTGAATCACA
1489	CATCCATCTACAATTGGGCCAGT	ACTGGCCGAATTGTAGATGGATG

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1490	ATGAGCCGTTCAGAAAGCCAAAGA	TCTTTGGCTTCTGAACGGCTCAT
1491	ACACTGGATTGCTAGACCCCGCG	CGCGGGGTCTAGCAATCCAGTGT
1492	CTGAGCTGCGTGGGACAACTCCGC	GCGGAGTTGTCCCACGCAGCTCAG
1493	CAGCTACTAGGGCGCGATGTACCC	GGGTACATCGCGCCCTAGTAGCTG
1494	ATAATGATGGGACGAGAAGGCCCC	GGGGCCTTCTCGTCCCACATCATTAT
1495	CGACCGAGTGTTACGACATGGTGC	GCACCATGTCGTAACACTCGGTG
1496	TGCAGTACCCGCCGCTCCACTAGT	ACTAGTGGAGCGGCGGGTACTGCA
1497	ATGCTAGCGCGCCTGTCACGTAC	GTACGTTGACAGGCGCGCTAGCAT
1498	AGACTCACTGCCGGCTGATCAAAT	ATTTGATCAGCCGGCAGTGAGTCT
1499	GCCTGGTGCAGAAGATAGGGATTCC	GGAATCCCTATCTCGCACCAAGGC
1500	GGAAAGTTGGCGGATCCGAGCACT	AGTGCTCGGATCCGCCAACTTTCC
1501	GGCAGTGAGCAATGTGTGACGAGG	CCTCGTCACACATTGCTCACTGCC
1502	TGAGGTCCCTCCGGCGGACTACGA	TCGTAGTCCGCCGGGAGGACCTCA
1503	CTCGCCTTAGATCGTGGTCCGCA	TGCGGAACCACGATCTAAGGCAG
1504	GTCGAGGAATATCATCGCAGCCAG	CTGGCTGCGATGATATTCTCGAC
1505	GCGAATGCAACGAGACAAGAAGGA	TCCCTCTTGTCTCGTGCATTGCG
1506	TTCGCCACCAAGTCGGCATTGTT	AACAAATGCCACTTGGTGGCGAA
1507	CGGTGGCTGACACTGCCGGATT	GAATCCGGCAAGTGTCAGCCACCG
1508	CAAGGAGCAATCAGATGGTCGGAG	CTCCGACCATCTGATTGCTCCTTG
1509	GTGACCCGGTCCGTTCTAGCTGT	CACAGCTAGAACGGACCAGGGTCAC
1510	CTCTGCCACATAACTGCACAAA	TTTGTGCAGTTATGTGGCGAGAG
1511	AAACCTGCCTAACGCAAGCACTGGA	TCCAGTGCTTGCTTAGGCAGGTTT
1512	TTCCATATTGTACCCCGCGCATGC	GCATGCGGGGGTACAATATGGAA
1513	TGCTTGCATATCACGATACTGCG	CGCAGTATCGTATCGCAAGCA
1514	TTAGTGGTCGAGCCTTGAGCCGGC	GCCGGCTCAAGGCTCGAACACTAA
1515	CTTGTGCGCGAGTCCGTCTGGGA	TCCCAGACGGACTCGCGCAACAAG
1516	GTCAGCTGCCTGCTGGTCTTC	GAAGAGCACCAGCAGGCAGCTGAC
1517	CATCCCTCGAGGTGTAGGAAACAC	GTGTTGCCTACACCTCGAGGGATG
1518	CAGATGCACTCCGACGGGATTCA	CTGAATCCGTCGGAGTGCATCTG
1519	CTGAGCCTCGCGAAGCTGTGGCAT	ATGCCACAGCTTGCAGGGCTCAG
1520	GCTATGCCACGCCGAGATAGAGC	GCTCTATCTCGGGCGTGGCATAGC
1521	AACACCAACCATAACCGTCCGTTCA	TGAACGGACGGTATGGTTGGTGT
1522	GCCCAGAGCTAACGATGTCTGGG	CCCAGACATGCTTAGCTCTGGC
1523	AATGCTGCAATGCTAGCGTCGCTA	TAGCGACGCTAGCATTGCAGCATT
1524	TCCGGACCGCAGTATCCAATCCGGA	TCCGGATTGGATACTGCGTCCGGA
1525	TAAGACCATGTGGCACCAAGGTGC	GCACCTGGTGCACATGGTCTTA
1526	ACAGCCACACACACGCGCCACTA	TAGTGGCGCGTGTGTGGCTGT
1527	TAGAACCGAGCACGGCGCCTTGTA	TACAAGGCGCCGTGCTCGGTTCTA

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1528	TTCGAGTAAGCTGGCAGGACCACT	AGTGGTCCTGCCAGCTACTCGAA
1529	CTTCGCAGGTTCGCAGACAATCC	GGATTGTCTGCGAACCTGCGAAAG
1530	TACGTCTGTGCTGTTGACACCGG	CCGGTGTCAACAGCACAGGACGTA
1531	GTTGGGTCAATGTTGGGGAGA	TCTCCCCGAAACATTGACCCGAAC
1532	CCCTGTTGTAAGGGGTTTGTGA	TCACAAAACCCCTTCACAACAGGG
1533	GGCAGATTGGTGAACCCCAGATAA	TTATCTGGGTTACCAATCTGCC
1534	CCCTCGGTGTGTTCAAGCCAAATC	GATTTGGCTGAACACACCCGAGGG
1535	CCCGCGAACATTGAACAGCTAA	TTAAGCTGTTCAAATGTTCGCGGG
1536	CCGTGTCAGTTGCTCCCTGGCACG	CGTGCCAGGGAGCAACTGACACGG
1537	TCCGTCTCAGCCGCCCTCCCTATCC	GGATAGGGAGGCGGCTGAGACGGA
1538	ATAGCTGGGTACCACAGGGGTG	GACGCCCTGTTGACCCAGCTAT
1539	ATAGGCAAGCGGTGAGCACAGCG	CGCTGTGCTACACCGCTTGCCTAT
1540	TTAGAAGCCGGTCTGGATTTGCGT	ACGCAAATCCAGACCGGCTTCTAA
1541	TGCCGACCTTACCAAGGATCCTCG	CGAGGATCCTGGTAAAGGTCGGCA
1542	GCCCCACACTATAACCAAGCTGGCA	TGCCAGCTGGTTAGTGTGGGC
1543	TTGCGCCACTAGTACGGATCTAA	TTGAGATCCGTAAGTGGCGCAA
1544	CTTGCAGTTATGCTGACCCGTCC	GGACGGGTCAAGCATAACTGCAAG
1545	TGCCTCCAAATTACTTACCGCCGT	ACGGCGGTAAAGTAATTGGAGGCA
1546	CCCGTATCGGAAGCTATGGCTA	TAGCCCAGCTCCGCATACGGG
1547	TCGTTCAACCCCACACTTCAGTTG	CAACTGAAGTGTGGGTTGAACGA
1548	CAATGTGGGGACATTCAAGGTT	AACCTGAAATGTCCCCCACATTG
1549	TAGCGTCGCACAAATGGCTGACCG	CGGTCAGCCATTGTGCGACGCTA
1550	GGTGGCTTCGTGACAATATCGGCC	GGCCGATATTGTACGAAGGCCACC
1551	CAGCGCGTCCGAAATTGGCTCTC	GAGAGCCAATTGGACGCCGCTG
1552	GGCTTGCTCGTTTGATTGCA	TGCAATCAAAACGAGAGCAAGCC
1553	ATGCGAGGAGGACACGACCGTTCC	GGAACGGTCGTGTCCTCGCAT
1554	CCTGTTCACTACGACCCACGGAA	TTCCCGTGGGTCGTAGTGAACAGG
1555	GTGCCACGGAGTGCAGACTGTTGCT	AGCAACAGTCGCACTCCGTGGCAC
1556	ACACATCCAAGTCTGACGATGGCC	GGCCATCGTCAGACTGGATGTGT
1557	CAGCCCAGGAAAGGAAAGCCTCCGTG	CACGGAGGCTTCCCTTCGGCTG
1558	AACTGAATGTAGGTGGCCCTGT	ACAGGGGCCACCTACATTCAAGTT
1559	ATTTGACGATAAGCTGGCCGT	ACCGGCCAGCTTACGTCGAAAAT
1560	TGAGGGAGAACCGAAATCTGCTT	AAGCAGATTGGGTTCTCCCTCA
1561	GGCGACTACATCCCCAATTGCTTG	CAAGCAATTGGGATGTAGTCGCC
1562	GCAGACGCGGCCTCCACACTTTT	AAAAGTATGGAAGGCCCGTCTGC
1563	ACAACCACATGACGTGTAGCTGCA	TGCAGCTACACGTACATGTGGTTGT
1564	CTGCTGGCGCGCAAAGCTTGTG	CAACAAGCTTGCACGCCAGCAG
1565	AAGCCTTCTTGGCTGCTCCGCT	AGCGGAGCAAGCCAAGAAGGCTT

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1566	TACCTGCTGCCTGGAGCAAGGCAT	ATGCCTTGCTCCAGGCAGCAGGTA
1567	GACGCCGCAGCCATGAGTGAGTGT	ACACTCACTCATGGCTGCGCGTC
1568	AGTTGGCCGCTTATTTGCTCACCA	GGTGAGCAAAATAAGCGGCCAACT
1570	CCAGGCGCCTCGACAGATCCTCA	TGAGGATCTGTCGAAGGCGCTGG
1571	GTGTCCCCCTCAGCTAGCCAGTT	AAACTGGCTAGCTGGAGGGGACAC
1572	GACAACAAGCCAAGGTGACACGTC	GACGTGTCACCTGGCTTGTGTC
1573	CTACACCGCTCGTACTGGCAAA	TTTGCCGAGTCACGAGCGGTGAG
1574	TGGTGCCATCAAAGCACGTTGTAC	GTACAACGTGCTTGATGGCACCA
1575	ACAATGCGTGTGCGAAACGCATA	TATGCGTTCGCAACACGCATTGT
1576	TTGTCCAGCCATTGTATTTGCGC	GCGCAAAATACAATGGCTGGACAA
1577	ACGAGAGATAGCGGACTCCTCCGA	TCGGAGGAGTCCGCTATCTCTCGT
1578	AGCTTTGTCGTCAGGCGAGCTCTT	AAGAGCTGCCCTGACGACAAAGCT
1579	GACAGTCGGCGTGCAGTTGTTGT	ACAACAAACTGCACGCCACTGTC
1580	AGCTAGCGACGGCCAACTCACGTA	TACGTGAGTTGGCCGTCGCTAGCT
1581	CTCCTGTCGGGGCCGTTACTGGT	ACCAGTAACGGCCCCAACAGGAG
1582	ACTGACCGACGCAGTGCCACATAG	CTATGTGGCACTGCGTCGGTCAGT
1583	AGGTAGGGTCTGGTTGACTCGCA	TGCGAGTCAAACCAAGACCCCTACCT
1584	CCTCCATTTAGCGCGTTGCCAAT	ATTGGCAACCGCGCTAAATGGAGG
1585	TTCTTAGGATCCCGCGCACTCTGG	CCAAGAGTGCAGGGATCCTAAGAA
1586	GTCGAAGGTGTCTACCGTGCAG	CTGCGCACGGTAGACACCTTCGAC
1587	GTCACTCGGCGGCCAACACTCG	CGAGTGATTGGCCGCCAGTGAC
1588	TCTCGGTACCCGCTTGACCCCTT	AAGGGTCAAGACGGGTGACCGAGA
1589	GCCCTCGACGAACTCATCCTGAAC	GTTCAGGATGAGTCGTCGAGGGC
1590	TCCGGCGTACTCTGACACGGCGAT	ATCGCCGTGTCAGAGTACGCCGA
1591	AGCCAAATGCTTCGTGGTCGGA	TCCGAACCACGAAAGCATTGGCT
1592	ACTCCACGCCGCATGTTGCTGTGA	TCACAGCAACATGCCGGTGGAGT
1593	GCTTCGAGTCGGTGGCATCTGTAT	ATACAGATGCCACCGACTCGAAC
1594	GGTCTTGGGCCATCGACTTGCTGC	GCAGCAAGTCGATGGCCCAAGACC
1595	GGTATCGGACTGCACTAAGGGCAA	TTGCCCTTAGTGCAGTCCGATAACC
1596	AGCCCATGCGTCCGGATGATTG	CAAATCATCCGGAACGCATGGGCT
1597	GCCAGGGTTAAAGTGTAGGGCTC	GAGCCCATCACTTTAACCCCTGGC
1598	GACGACGTGCTGGCTACGAAGGGG	CCCCCTCGTAGGCCAGCACGTCGTC
1599	TCCTATTGACCGTGCATCGTGATC	GATCACGATGCACGGTCAATAGGA
1600	ACCCGCCTCGACTCCACAACTAAA	TTTAGTTGTGGAGTCGAGGGGGT
1601	GATGTGGATCACGACCTGCCAGTA	TACTGGCAGGTGCGATCCACATC
1602	GTGCCATTGCCACCCATAATGCGT	ACGCATTATGGGTGGCAATGGCAC
1603	TTAGCCTGTGCACCCAGTCAGGAG	CTCCTGACTGGGTGCACAGGCTAA
1604	TCCGATGGGAGAGGGCTGATCTCAC	GTGAGATCAGCCTCTCCCATCGGA

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1605	CACTACTGAAGTGGCCTGGCGCTG	CAGCGCCAGGCCACTTCAGTAGTG
1606	TGCGGCCATAGCGATGTGATAGAT	ATCTATCACATCGCTATGGCCGCA
1607	GATTGCGCTTAACGGAGATGCACG	CGTGCATCTCCGTTAACGCGCAATC
1608	TCACGTTGACAACGCCAACGATT	AATGCTTGGCGTTGTCAAACGTGA
1609	GCATTGTTGCTAAAGGCGGCATT	AATGCCGCCTTAGCAAACAATGC
1610	AGTCGCTCTACGCGTGCAACGCTG	CAGCGTTGCACGCGTAGAGCGACT
1611	TAGCTCCATGGAGGTCCGAAAGGG	CCCTTCGGACCTCCATGGAGCTA
1612	GACCGGTTGGACCTCACTGGCTTC	GAAGCCAGTGAGGTCCAACCGGTC
1613	AAGCCGGACAGTCAATGTGCGTAT	ATACGCACATTGACTGTCCGGCTT
1614	TGCCTCGCTGAGTTCTCACCGTG	CACGGTGAAGAACTCAGCGAGGCA
1615	TCGTAGACCTTGCTTTGGGCTCA	TGAGCCCCAAAGCAAGGTCTACGA
1616	ACCGCTATGCGCCCTACAAAGCAT	ATGCTTGTAGGGCGCATAGCGGT
1617	TAGCGTCACCGTAGCTGGGCGAG	CTGCCCCAAGCTACGGTGACGCTA
1618	CTCTCAGCAACTGATGGCACCGGA	TCCGGTGCCATCAGTTGCTGAGAG
1619	AAAGGAAATGTGGTCTGGTCGGC	GCCGACCAGCACCACATTCCTTT
1620	CCGGCTTAGATGGAGAACAAAGTC	GCACTTGTTCTCCATCTAACGCCGG
1621	AAGTAAATCGCCTGCCAACCG	CGGTTGGCGAGGCGATTTACCT
1622	TGGGCTGTTCAGCCTACCGGACGT	ACGTCGGTAGGCTGAACAGCCCA
1623	GTTCGGTTCAGCCATGGGCTAC	GTAGGCCCAGGCTGAACCGAAC
1624	GGCCAACATTCAGGGGAGTGCC	GGCACTCCCCTAGAAATGTTGGCC
1625	TTCTCGTTGGATTGTCCTCACC	GGTGAGGACAATCCAACGAAGAA
1626	TGCACATTGGGTACGGATCTGAC	GTCAGATCCGTACCCCAATGTGCA
1627	GGCAGTTAGACGGCAAATGCGAGG	CCTGCAGTTGCCGTCTAACTGCC
1628	CGCGTCAGGCTATGAATGGCTCT	AAGAGCATTCTAGCCTGACGCG
1629	GCTGAATGCAAACCTCGGAGCCAT	ATGGCTCCGAGGTTGCATTAGC
1630	CGCTCTGGCGGATTCTATTGTTTC	GAAAACAATGAATCCGCCAGAGCG
1631	TTTCAATCAACCCTCCGGACGTA	TACGTCCGGAGGGTTGATTGAAA
1632	GTGGTGGAGTCTGAAGCACGACAG	CTGTCGTGCTTCAGACTCCACCAC
1633	AAACAGGTCCGGATGATGTCTGGA	TCCAGACATCATCCGGACCTGTT
1634	GTACCGCGTGTACGCCACCGTTAG	CTAACGGTGGCGTACACCGGTAC
1635	TCCAACCTACATTGCGGAAGGAA	TTCCCTCCGCAAATGTAGGTTGGA
1636	GACGTACCGTCGTCCGTGAGTTG	CAACTCACGGGACGACGGTACGTC
1637	GGCAATCCTACAACCGACGCGTAT	ATCAGCGTCGGTTGAGGATTGCC
1638	GGCGGCTGCAGGGTCTACATCGAG	CTCGATGTAGACCCCTGCAGCCGCC
1639	ATACTACGCTGCAGCTGCCGGGC	GCCCCCGCAGCTGCAGCGTAGTAT
1640	GGATCGCAATCCCTCCGATGACGA	TCGTCATGGAGGGATTGCGATCC
1641	TGGCCTTGCACGGAGCCGAATCT	AGATTGGCTCCGTGCAAGGCCA
1642	AGGTGCCGACGAAACGACGAATAT	ATATTGTCGTTTGTGCGCACCT

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1643	GCTGTTCACCGTCGTCGTTG	CAACAACGACGACGGTAAACAGC
1644	CGGTCCCAATGTTACAACCCAGAC	GTCTGGGTTGTAACATTGGGACCG
1645	GCAATTCCAGCCACTTTGACCAA	TTGGTCAAAAGTGGCTGGAATTGC
1646	ACGGGCGAAAGCTCGGTACGGATA	TATCCGTACCGAGCTTCGCCCGT
1647	CGACCCGACTTTGCTTCGAGTG	CACTCGAAAGCAAAAGTCGGGTCG
1648	AATTCAAGTGTGCGTCATGGTCG	CGACCATGACGCAAACACTGAATT
1649	CCTGTATGAGGTTCTGGGTCGGCT	AGCCGACCCAGAACCTCATACAGG
1650	TGGCATACTGGTGCAAACGCCGT	ACGGCGTTGCACCAAGTATGCCA
1651	TCGCCAGTACAGAAACATGCGGGC	GCCCGCATGTTCTGTACTGGCGA
1652	CCCGCTGTTGCTCTCATGTGGAG	CTCCACGATGAGAGCAACAGCGGG
1653	GCCACAATCTGACCCTGGGAATCA	TGATTCCCAGGGTCAGATTGTGGC
1654	GCTCAGTCTCGGAAGTTCGGCTA	TAGCCGAAACTTCCGAGACTGAGC
1655	CTTCACGGGCCAACGACGGTCGAG	CTCGACCGTCGTTGGCCCGTGAAG
1656	CGACAGTCCGTCCGTCTGAGGA	TCCTCAAGACGGACGGAACGTGTCG
1657	ACGGAGACGCAGTCGAAACGTCCC	GGGACGTTCGACTCGTCTCCGT
1658	CATGCATCCGATTAAGGGGATCAC	GTGATCCCCCTTAATCGGATGCATG
1659	ATTGCGGGAGTCCCTAGCTTCTG	CAGAAAGCTAGGGACTCCCGCAAT
1660	GTGTGGAAGATGCAATTGGAACGG	CCGTTCCAATTGCATCTTCCACAC
1661	ATACAACGGTAGGTGACAGGGGCG	CGCCCCGTACCTACCGTTGTAT
1662	GCCGTGGAGTAAGGGTACAAAGG	CCTTGTACCCCTACTCCCACGGC
1663	GCACGTAGGTGGCTACTACTCGG	CCGAGTAGTAGCCGACCTACGTGC
1664	ACTGTGATCTCTGGCAAAGGGC	GCCCCTTGCCAAGAGATCACAGT
1665	CATGCCTGAACAATCTGCATCCC	GGGATGCGAGATTGTTCAAGGCATG
1666	GAGCCTGGCTCCACAGCTGTGCTC	GAGCACAGCTGTGGAGGCCAGGCTC
1667	CTTCGATACCATCGTGGCGATC	GATGCCAACGATGGTATCGAAAG
1668	CCCGGAGGTGAGGCATTGAATATG	CATATTCAATGCCTCACCTCCGGG
1669	CTCATTCAAGCTAAAGCGGCTGGA	TCCAGCCGCTTTAGCTGAATGAG
1670	GAAATGCCCTGGGACTTTGCC	GGCAAAAAGTCCCCAGGGCATTTC
1671	TTTGCCTTCACAACAGACGCAGCA	TGCTCGTCTGTTGTGAAGGCAA
1672	AAATCCCAGACGTCGGGCGTAT	ATACGCCCGACGTCTGGGATTT
1673	CAACGGGCGGTAGCTAACCGTAA	TTACGGTTAGCTACCGCCCGTT
1674	GGCCAACGACAATGCGAACCTTC	GAAGGTTCGCATTGTCGTTGGCC
1675	GACATCACGCAAATCTCAGCGCA	TGCGCTGAGATTTGCGTGATGTC
1676	ACGTTCCGTCCACAACCGTATGTT	AACATACGGTTGTGGACGGAACGT
1677	GCTCATAGGTCTCCGTAGCCGT	ACGGGCTACGGAAGACCTATGAGC
1678	GAAACGAGTCTCTCGCGCCCTAGA	TCTAGGGCGCGAGAGACTCGTTTC
1679	CGGGACAGAAGCAAGTTACATCGG	CCGATGTAACCTGCTCTGTCCCG
1680	TGACCGCTCGATACCAGGAGGGTG	CACCCCTCCTGGTATCGAGCGGTCA

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1681	CTGGCAATAAAGACCTTCCGACCA	TGGTCGGAAGGTCTTATTGCCAG
1682	TGCGCGACGTCATGTTGGTGATTA	TAATCACCAACATGACGTCGCGCA
1683	GTTGGTTGGGAACACACCCGCT	AGCGGGTGTGTTCCCACAACCAAC
1684	TGTGGGTCGGAAACACAGGAAGT	ACTTCCTGTGTTCCGAACCCACA
1685	GGAAAAAAACGGCAATTAGCCGAGT	ACTCGGCTAATTGCCGTTTTTCC
1686	TGGTGCGGAGTGCCCTTATTGGG	CCCAATAGAGGGCACTCCGCACCA
1687	AACCAACAGGCTGCAGCCCAGACT	AGTCTGGGCTGCAGCCTGTTGGTT
1688	AAACAGATCCATCTGCACGCCAGG	CCTGGCGTGCAGATGGATCTGTTT
1689	GGAATACCGCGGCGATTATGGCTT	AAGCCATAATGCCGCGGTATTCC
1690	TAATGTTGGGAAACCGTCACT	AGTACGGTTGCGCGAACAGTA
1691	GATCTCTCGTGGAGCACGTTTCC	GGAAAACGTGCTCCACGAGAGATC
1692	GGCATAGCAAACCTTGACCTCCAA	TTGGAGGTCAAGGTTGCTATGCC
1693	ATCTGGGATTCGCGAGCCAATATC	GATATTGGCTCGCGAACCCAGAT
1694	CGATCAGGATATCATTACGCCCG	CGGGCGTAAATGATATCCTGATCG
1695	ACGGTACCGAAACGGTCTCAGCGT	ACGCTGAGACCGTTGGTACCGT
1696	CTCCCATACTCGCGTTCTTACCGA	TCGGTAAGAACGCAGGTATGGGAG
1697	GCACGAGAACCTAATTGTCGCACA	TGTGCGACAATTAGGTTCTCGTGC
1698	GCCACACGATCAAGACAGCGCATG	CATGCGCTGTCTTATCGTGTGGC
1699	CCCGTTAACTCACGAGCGGTCAAT	ATTGACCGCTCGTGAGTTAACGGG
1700	AGAGAAGGTCATTGCCTGTCGGTG	CACCGACAGGCAATGACCTTCTCT
1701	CGGGCCCTTAAAGTAGAGCAGG	CCTGCTCTACTTTAAGAGGGCCCG
1702	ACATCGCGTCCGAGGGAGTTAGCG	CGCTAACTCCCTCGGACGCGATGT
1703	AATGCCTAATCGAGGCCAGCGGATC	GATCCGCTGGCTCGATTAGGCATT
1704	CTCGATCTTTAAACCGGCCCTT	AAGCGCCGGTTAAAAAGATCGAG
1705	CGTTCCGGAAAGGCAGGGTCTCAC	GTGAGACCCCTGCCTCCAGGAACG
1706	CCTGTGCTTACTATCGCGATCCA	TGGATCGCCGATAGTAAGCACAGG
1707	GTTAGTCGCCCTATTGGCCTGGTT	AACCAGGCCAATAGGGGACTAAC
1708	CCGGTGAGATGACTGAAATGCCA	TGGCATTACAGTCATCTCACCGG
1709	CGTGGTTAAACATCGCGCTTCG	CGAAGCGCGATGTTAAACCACG
1710	TAAGACGCAGAAGATGGGTCCAC	GTGGACCCCATCTCTCGTCTTA
1711	CACCAAGCTTCTTGTTCGACCC	GGGTCGAACAAAGAAGCTGTGGTG
1712	TCGGGTCCGTACCACCACTTTC	GCAAAAGTGGTGGTACGGACCCGA
1713	CCAAGCCCCGAGTACCGAAGATT	AAATCTTCGGTACTCGGGCTTGG
1714	TCCGTGATATGGTCGTGGCGCGGT	ACCGCGCCACGACCATATCACGGA
1715	TGTCTGTGTCATGGCACCTCGCAT	ATGCGAGGTGCCATGACACAGACA
1716	AGGACTGCACTGTGCACGTCTGAT	ATCAGACGTGCACAGTGCAGTCCT
1717	CCATCCTCATGTACAGCGCCGCTG	CAGCGCGCTGTACATGAGGATGG
1718	GTACCCGCGCCTCCTCGACACAG	CTGTGTCGAGGAAGGCGCGGGTAC

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1719	ACGGGTCTGGTCGACTAAGGCTT	AAGCCTAGTCGACCAGGACCCGT
1720	CGTATCGAAGGCGTGTACAACCGG	CCGGTTGTACACGCCCTCGATACG
1721	TGCCCGCCCTTATGCAACGCTCA	TGAGCGTTGCATAAAGGGCGGGCA
1722	AAACTTACGAGACGGCGGCTGCCA	TGGCAGCCGCCGCTCGTAAGTTT
1723	AAGTCTGACAAACGGAACGGGTGT	ACACCCGTTCCGTTGTCAGACTT
1724	TAAGCGCAGACCAAAAGTATGCGGC	GCCGCATACTTGGTCTGCGCTTA
1725	GCAGTTTCAGATCCTCCGCAA	TTTGC GGAGGATCTGAAAAACTGC
1726	TCGGAAGCATTACCGATCTCAG	CTGAGATCGCGTAAATGCTTCCGA
1727	CACAGAAACGGTTGAACGAACGCC	GGCGTTCGTTCAACC GTTCTGTG
1728	GCATGCTCAGATGGCGTGTAC	GTGAGCACGACCATCTGAGCATGC
1729	AAGGATTCTCGCTTCCGGCATGAT	ATCATGCCGGAAGCGAGAATCCTT
1730	GGTGGGGTAGCGCTGGTATGAAAA	TTTCATACCA CGCGTACCC CACC
1731	ATTATTACGGGACCGAACCAACGG	CCGTTGGTCCGGTCCCCTAATAAT
1732	GCGCGAGTGTATGATGTTACGT	ACGTGAACATCATGACACTCGCGC
1733	GACATTCTGACTTGGCGTCCGC	CGGGACGACCAAGTCACGAATGTC
1734	TCATTAGTGCAGGCACCGATCAAG	CTTGATCGGTGCCTGCACTAATGA
1735	GAGTTGTGCGGAGTCATCGGAGTC	GAATCCGATGACTCCGCACAACTC
1736	GCCTTACAGATTGGCGGGCTAT	ATAGCCCGCAAATCTGTAAAGGC
1737	ATGGCGTTGCGAAGTCGATACAG	CTGTATCGACTTCGCAAACGCCAT
1738	TGCATCGGCCTCAATCAGAGAACT	AGTTCTCTGATTGAGGCCATGCA
1739	ACAATCATGGCAATCTGGCAAATG	CATTGCCAGATTGCCATGATTGT
1740	GACGTGGAAGAGTCAGATCAGCA	TGCTGATCTGCACTCTCCACGTC
1741	AGGGCAGGGACGGACAGTAAGTC	GAATTACTGTCCGTCCCTGCCCT
1742	GCATAGGGCGAATCTAGTACGGC	GCCCGTACTAGATTGCCCTATGC
1743	TCCGGCGCATCCTCATTAGCACT	AGTTGCTAATGAGGATGCGCCGGA
1744	TGGCCGCTTCCACTAATATTGGAC	GTCCAATATTAGTGGAAAGCGGCCA
1745	CCGGCGGACGGCTTGTCAATGA	TCATTGACAAGAGCCGTCCGCCGG
1746	CGAGCAACCCAAAGGAAGCAGTA	TAATGCTTCTTTGGTTGCTCG
1747	GCGTATGATTGGCAATCCGCCAG	CTGGCGGATTGCCGAATCATACGC
1748	AGTACCGCTACAACGCTGGTCGC	GCGAACCGCGTTGAGCGGTACT
1749	GGGCAGGCCAGGTCCACCTGAGAA	TTCTCAGGTGGACCTGGCCTGCC
1750	CCACTTCTGTGACCGAACCGTGCT	AGCACGGTTGGTCACAGAAGTGG
1751	CCTGGTACCAAGGCAGCAGTTGATT	AATCAACTGCTGCCCTGGTACCAAGG
1752	TTAGGGTACCGTGCAGAGACGCCA	TGGCGTCTCTCGACGGTACCCCTAA
1753	GGTTGCTTGTGCGCGTGAGGTAGT	ACTACCTCACGCCGACAAGCAACC
1754	TGCTTGCACCGATGAAACTCGAAG	CTTCGAGTTCATCGGTGAAGCA
1755	TGCCACCCATACTATGCCAGTGG	CCACTGGCAGTAGTATGGTGCGCA
1756	TGTGCGGCAACGCGTGAAGACGTT	AACGTCTCACGCCGTTGCCGCACA

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1757	TGAGAGAAGCTGGCCTCGGATCAG	CTGATCCGAGGCCAGCTCTCTCA
1758	TATTGCGAATTGAGTACGTGCC	GGGCACGTACTCGAATTGCAATA
1759	CGAGAGGGGTTCCCCAGTGATCGA	TCGATCACTGGGAACCCCTCTCG
1760	TGCCTGGGTGTCGTTCTAATTCT	AGAATTAGAACGACACCCAGGCA
1761	GTGCGTCATTGTGGTCATCCAA	TTGGGATGACCCACAATGACGCAC
1762	AGGGCTCCAGCATACCAACGTTG	CAACGTTGGTATGCTGGAGCCCT
1763	AACTAGCCGCACCTTGTGCAGAG	CTCTGCACAAAGGTGCGGGTAGTT
1764	TTAGCCCAGCCCTCAATGGGAAC	GTTCCCATTGAAGGGCTGGCTAA
1765	CGGCCTCGGTTGTACGGGTAGTCT	AGACTACCCGTACAACCGAGGCCG
1766	TCTTGAGGCGCGGACCCGATAT	ATATGCGGGTCCGCGCCTCAAAGA
1767	GATGGTTGCCCTTGTGTCGAGC	GCTGCGACACAAGGGCGAACCATC
1768	GAGATTCAATACAGGCCGCGGGTC	GACCCGCGGCCTGTATTGAATCTC
1769	AGGGCGAAGGAAGGTTCCGTTTT	AAAAACGGAACCTTCCTTCGCCCT
1770	CTCGACCCCTGCCACTACTGGTC	GAACCAGTAGTGGCAGGGGTCGAG
1771	TGTTCCGCGGTCTACGCATTACTG	CAGTAATGCGTAGACCGCGGAACA
1772	GAGACGACGTCTACACCCGCTAA	TTAGCGGGTGTAGGACGTCGTCTC
1773	AGATTGCGACAGCGACACGTGATT	AATCACGTGTCGCTGTCGAATCT
1774	GATACCGTTGGGCATTCTCGGTA	TACCGAGAAATGCCAACGGTATC
1775	GATTGGGAGGCATTAGCGACGGA	TCCGTCGCTGAATGCCCTCCAATC
1776	AGGAGGAAACGAGGGCGTAGGTT	GAACCTACGCCCTCGTTCCCTCCT
1777	GCCAAACAACGTCTGACGCCCTAGC	GCTAGGCGTCAGACGTTGGC
1778	TTTAATGCGGAAAGGATGCACGCG	CGCGTGCATCCTTCGCATTAAA
1779	TTATCGGCCGTAAAATGGGATGG	CCATCCCATTAAACGGCGATAA
1780	CCTTGGATTGTTCATCGCTAGCA	TGCTAGCGATGAACGAATCCAAGG
1781	AAGTGAACGTGCACTGGTCTCGA	TCGAAGACCACACTGCACGTTCACTT
1782	TCCTTACCCCTCGTTCAAACGCCT	AGGCCTTGAACGAGGGTAAGGA
1783	ATTCCTGAACCATGCATGGCCTGT	ACAGGCCATGCATGGTCAGGAAT
1784	AGCGAGACGCTCGATCACGAACTA	TAGTCGTGATCGAGCGTCTCGCT
1785	GCTGGTCTGGCTCGCTGTTAGAA	TTCTAAACAGCGAGCCAGACCAGC
1786	CGTGCAGGGCATAAAGATAGGTCT	AGACCTATCTTATGCCCGCAGC
1787	TCTGGCACTCACATGGACAGTCT	AGACTGTCCGATGTGAGTGCCAGA
1788	ACCATTGGAGGACCACAGAGCTCC	GGAGCTCTGGTCCTCCAATGGT
1789	TCCAGGGTCGGAGTACATGGCGGG	CCCGCCATGTACTCCGACCCCTGGA
1790	ATATGCCGTCGGATCGTACACGCA	TGCGTGTACGATCCGACGGCATAT
1791	TGCTGGCGTCAACACTTCCCGATT	AATCGGGAAGTGTGACGCCAGCA
1792	CAGGGCGGTGCGGTGAACTAGCCA	TGGCTAGTTCACCGCACC GCCCTG
1793	CATGGACTGCCGTACATCAGCTGG	CCAGCTGATGTACGGCAGTCCATG
1794	CCGGCCATACGCTGGCAAGATTAC	GTAATCTGCCAGCGTATGCCGG

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1795	AGCGGACACCTGTACTCTCCTCCA	TGGAGGGAGAGTACAGGTGTCCGCT
1796	GGAGCCACACCAGTCGAAGATGGT	ACCATCTCGACTGGTGTGGCTCC
1797	CGCCACCGGAAATTGAAAAGACTG	CAGTCTTCAATTCCGGTGGCG
1798	TGAAACGGATGTTGCTTCTGACG	CGTCAAGAAGCAACATCCGTTCA
1799	TTGAAGCGGTGAAGAGCCTGTCCT	AGGACAGGCTTCAACCGCTTCAA
1800	CGAACCAAGCTGCATTGTCAGTGG	CCACTGACAATGCAGCTGGTTCG
1801	GAGTCTCGCCTTGAATCTTGCG	CGCAAAGATTGCAAGCGCAGACTC
1802	GCTGGGTATAGTTGCCTGGCAATG	CATTGCCAGGCAACTATACCCAGC
1803	GCAGGCGTTCCATATTGCAACCC	GGGTTGCGAATATGGAACGCCTGC
1804	GCGCCAACTAATACCTCCACCGCG	CGCGGTGGAGGTATTAGTTGGCGC
1805	TGGCGTTCACTGCAACGCTGGTTA	TAACCAGCGTTGCACTGAACGCCA
1806	CAAAACTGACGGGTATGGGAGCGC	GCGCTCCCATAACCGTCAGTTTG
1807	AGGTGTCGCTGGAACCCGACTTGT	ACAAGTCGGGTTCCAGCGACACCT
1808	CTTCCAAAAGCGCAATTGGCTTG	CAAAGCCAATTGCGCTTTGGAAG
1809	TCGGGCTTCTCGCAATTCTGTCAG	CTGACAGAATTGCGAGAAGCCCGA
1810	GCCAAAAGAATGCGCTGGGTAGGT	ACCTACCCAGCGCATTCTTTGGC
1811	TGGTGCCCCGACCGAGAGACTGTA	TACAGTCTCTCGGTGCGGGCACCA
1812	CGAGGCCGTAGTGGGACTGCTCT	AGAGCAGTCCCCACTACGGCCTCG
1813	CGATCTGCGCATAGAGGGGACTTT	AAAGTCCCCTCATGCGCAGATCG
1814	TGTGCAATCGGCCTCTCAGAGCC	GGCTCTGAGAAGGCCGATTGCACA
1815	GATCACCTGGACCGCTACCGTTT	AAAACGGTAGCGGTCCAGGTGATC
1816	ATGGGGAGTTAAGGACCCCTGCACC	GGTGCAGGGTCCCTAACCCCCAT
1817	CATTGTGGACAGCCAATGGTGGCT	AGCCACCATTGGCTGTCCACAATG
1818	CCATCACCATGCCACGGTAAGATC	GATCTTACCGTGGCATGGTATGG
1819	GCACCCGTGTCGTTGGTAGCAAG	CTTGCTAACCAACGACACGGGTGC
1820	GGAGTGGGTTCCCGGAATTCACTG	CAGTGAATTCGCGGAACCCACTCC
1821	GGGGATTCCTTCGCAAGGCTCGA	TCGAGCCTGCGAAAGGAAATCCCC
1822	CATTGATCATGTGCACTTGCACCA	TGGTGCAAGTGCACATGATCAATG
1823	AGCAGCGCTGCGCTTGTTCGGAT	ATCCGAAACAAAGCGCAGCGCTGCT
1824	CGAGTAACCGGGTTGCTTGCAGA	TTCGCAAAGCAACCGCGTTACTCG
1825	TGGCCTGGAACATAGGTGGAACCTC	GAGTCCACCTATGTTCCAGGCCA
1826	CGCACACCAAGCGTTATTGAGAA	TTCTCAATAACGCTTGGTGTGCG
1827	TCACCTTCACAGTGGCATAACAGC	GCTGTATGCCACTGTGAAGGTGA
1828	CAAATATCCCTGAGCCCTGAGCT	AGCTCGAGGGCTCAGGGATATTG
1829	GGGAGCTGGTGAGCAGATGTAACG	CGTTACATCTGCTCACCAAGCTCCC
1830	AGGATTGCTTTCGCTTATGCGGA	TCCGCATAACGCAAAGCAATCCT
1831	ATCGTTGGCGCTACGCAATTGT	ACAATTGCGTAGCGCCAAACGAT
1832	CCGATTGTCCTAACATGCAACGTT	AACGTTGCATTGGACAAATCGG

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1833	AAGGGTCAAGCTCATGGAGCGGAA	TTCCGCTCCATGAGCTTGACCCCTT
1834	TCTGACGTCGTTCAAGGGCTCGCT	AGCGAGCCCTGAACGACGTCAGA
1835	CGCACCACTCCGAGGTATTTGTCT	AGACAAATACCTCGGAGTGGTGCG
1836	AAGGGGTGAAAAAGGAGAAGCCGA	TCGGCTTCTCCTTTCACCCCTT
1837	AAACCACGCAAATGGCGATACCAT	ATGGTATGCCATTGCGTGGTTT
1838	CAGAAGGGATGACGCCCTAACGTCG	CGACTTAAGGCGTCATCCCTTCTG
1839	CATGACGAGAGCGGGACCTGAAGTG	CACTTCAGGTCCGCTCTCGTCATG
1840	CTGGACATGTTGTTGCCACTG	CAGTGGCGAAACAAACATGTCCAG
1841	AAGACCGACTCTCGTCGTTGCAC	GTGCAAACGACGAGAGTCGGTCTT
1842	GCGCGATTACATACCGTTCCGTA	TACGGAAACGGTATGTAATCGCGC
1843	CACTGACCGGACCCAACCTAACAT	ATGTTAGGTTGGTCCGGTCAGTG
1844	AGTGCAAGTCTAGACACGCCGAG	CTCGGGCGTGTCTAGACTTGCAC
1845	GGTTGGTGCAGAGATCCTGGACTGT	ACAGTCCAGGATCTCGCACCAACC
1846	GGTCGTCCCAGAACGTAACCGAGG	CCTCGTTACGTTGGGACGAC
1847	GACTAGTACGATCACGGGGCGGGT	ACCCGGCCCCGTGATCGTACTAGTC
1848	CCGACCTGACCCCTGTACAGGTT	AACCTGTACACAGGGTCAGGTCGG
1849	TGCTCACTGCCAACACTGTTATGG	CCATAACAGTGTGGGCAGTGAGCA
1850	CGAGGAAACACATTTCTCGGGCC	GGCCCCGAAGAAATGTGTTCCCTCG
1851	TGGCACCGGGTGGATTCTTGTCTA	TAGACAAGAATCCACCCGGTGCCA
1852	GAGGCACGGTGATAGTGGTTGTGC	GCACAAACCACTATCACCGTGCCTC
1853	ATGCAGATGGATCTTTCGACGC	GCGTCGAAAAAGATCCATCTGCAT
1854	TGCGATAGCCAAAGAGTCGAGGAC	GTCCTCGACTCTTGGCTATCGCA
1855	ATGGCGTGTCAAGCGAACTGCCTGG	CCAGGCAGTTCGCTGACACGCCAT
1856	CAATGCAGCTCGGAAGTCAGTCG	CGACCTGACTTCCGAGCTGCATTG
1857	AGGATCAGTGCACATGTCCCCCTCA	TGAGGGGACATGTGCACTGATCCT
1858	CACATCTGGCTGTCAACCGAGAA	TTCTGGGTGACAGCCAAGATGTG
1859	CGCATTATCACCTCAATGCCAGTG	CACTGGCATTGAGGTGATAATGCG
1860	ACATCCGAGACTCCCTAGCCC	GGGCTATAGGGAGTCTGGGATGT
1861	GTGAACCCGAACGAGGGAGTCTC	GAGACTCCCCTCGTTGGGTTAC
1862	GCGTAGGGAATTGCCCTACGACT	AGTCGTGAGGCAAATTCCCTACGC
1863	TTTACGCGTCGCTCGGTTGTAGTG	CACTACAACCGAGCGACCGCGTAA
1864	GAGAGGCGTCTAGGCCTTAGC	GCTAGAACCGCCTAGACGCCCTCTC
1865	GCATGCTGATAACGAATGCTTCCC	GGGAAGCATTCGTTATCAGCATGC
1866	CTGAAGCTCGTGTGCGATGAGGGA	TCCCTCATCGCACACGAGCTTCAG
1867	ACAAACGGCATGAGGAGGCTTTTC	GAAAAAGCCTCTCATGCCGTTGT
1868	TTTGGAGACGCCAGTACGCGTGGT	ACCACGCGTACTGGCGTCTCCAAA
1869	GCTATCATTGGTGTAAAGCCCGCC	GGCAGGCTTACACCAAATGATAGC
1870	TCAACATCCAGGGCGGTGTTGGT	ACCAAGCACC GCCCTGGATGTTGA

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1871	TTCGATGTAATCCCCAAAGATGCC	GGCATCTTGGGGATTACATCGAA
1872	GGACCTTCGGCAGGTTATGCCGT	ACGGCGATAACCTGCCGAAGGTCC
1873	AGTAAGAAGAGGCAGGCCACCT	AGGTGGGGCCTGCCTCTTCTTACT
1874	AACGGCTCCCCGTCTACTGCTTA	TAAGCAGTACGACGGGAGCCGTT
1875	CCTATACCGTCGTGGTCCACGTT	AACGTGGAACCACGACGGTATAGG
1876	CCGCGCAGGCAGCTAATACTCAAGG	CCTTGAGTATTAGCGCCTGCGCGG
1877	AAATGGGCCAGTAAATCCTTGGT	ACCAAGGATTCACTGGCCCATT
1878	ACGGTTTGAATACTGCTGGCAG	CTGCCAGCAGTATTGAAACCGT
1879	CCGCTGAGGTTCAAGTCAGAGCT	AGCTCTGACCTGAACCTCAAGCGG
1880	ATCGTCCCCAAGACACTAAACG	CGTTTAAGTGTCTCGGGCACGAT
1881	ACCTGAACCAGGGCATTGCTTA	TAAGCAATGCCCTGGTTCAGGT
1882	ACCCCTATACGCTGGCCTAACCGGG	CCCGCTTAGCCCAGCGTATAGGGT
1883	TGTTTCGCGACTAGAACGCCTTGC	GCAAAGGCTCTAGTCGCGAAACA
1884	GAAGTTGGCGGCTACCCGTATTA	TAATACGGGTGAGCCGCCAACTTC
1885	TGGCTACACCGCTTAGGAGGAACC	GGTTCCTCTAACGGGTAGCCA
1886	CCACAGTTGCGTACTAACATCGC	GCGATGTAAGTCACGCAACTGTGG
1887	ACTGCCACTGCGTCTGAAGAGTGG	CCACTCTCAGACGCAGTGGCAGT
1888	GCGCCAGCAAATTCGTGTGGTGT	ACACCCACAGAAATTGCTGGCGC
1889	TGCCTCCGTCGAGCCGAATAGCCA	TGGCTATTGGCTCGACGGAGGCA
1890	GTACAAACGGGCGCTATTCGTCC	GGACGAAATAGCGCCCGTTGTAC
1891	GCTTCCCTGGCTCTAACGGAAAC	GTTTCCGTTAGAGCCAGGGAAAGC
1892	CGGCTACCCAGGCAGATAAGCTGA	TCAGCTTATCTGCCTGGTAGCCG
1893	GGTTGGACCCGACAGGGAAATTCC	GGAAATTCCCTGTCGGGTCCAACC
1894	GGGAATACCCGGCGTTGTAATA	TATTACAAACGCCGGTATTCCCC
1895	TGGTCGGTGAGGTTATGTCGGT	ACCGAACATAACCTCACCGAACCA
1896	TCGGTAGGGTCAGTCGCTGAGGA	TCCTCAGCGACTAACCTACCGA
1897	TTCGGAGTGTGCCGGTGCTAGTAC	GTACTAGCACCGGCACACTCCGAA
1898	TCGTACTGGAATGATGGCCGGGCC	GGCCCGGCCATCATTCCAGTACGA
1899	TCCGTCGACCGTCCAGCGAACGTT	AAACTCGCTGGACGGTCGACGGA
1900	AGGGAAATATAACAAACACCGCGCAC	GTGCGCGGTGTTATATTCCCT
1901	ATGTCCCAGGAAACCAGCTACCTCA	TGAGGGTAGCTGGTTCCGGGACAT
1902	ACCAGCGACTTAGATAGCCGTCCG	CGGACGGCTATCTAACGTGCTGGT
1903	GGAAAACCTCCTTGCGTCAACCA	TGGTTGACGCAAAGGAGGTTTCC
1904	ACGTGCGTGCATACCCAAGAGGAC	GTCCTCTTGGGTATGCACGCACGT
1905	ACGCCACTTCCCTAGAACCAACG	CGTTGGTTCTAGGGAAAGTGGCGT
1906	CGAAGTACGCAATAGTGCCACCT	AGGGTGGCACTATTGCGTACTTCG
1907	GATCCCGCGGATCACCTATCAAT	ATTGATAGGTGATCCGCCGGGATC
1908	AGAAAGCGACCGTTCAAGCTAGC	GCTAGCCTGAAACGGTCGCTTCT

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1909	CGCTCCCTTCATAGTCCTCTCCG	CGGAGAGGACTATGAAAGGGAGCG
1910	GTGGGTGGTCATAACGACAGCAGA	TCTGCTGCGTTATGACCACCCAC
1911	CTGGAGGCTGCATCGTCGTAACA	TGTTACGAACGATGCAGCCTCCAG
1912	CACCATGAGTTCGGAGCGAGGAT	ATCCTCGCTCCGAAACTCATGGTG
1913	CAAGCTCGCTCGATGAGAGATTG	CAATCTCTCATCGAACGCAGCTTG
1914	CCTGGGAGCAATGACCGCTCTGGT	ACCAGAGCGGTCATTGCTCCCAGG
1915	TCCGGCGCTCTACCAAGATGAGAC	GTCTCATCTTGGTAGAGCGCCGGA
1916	CGACCGCGTCGCGTATACTATCCG	CGGATAGTATA CGCGACGCGGTCG
1917	AACATTGCTAGTGGGTCCAACA	TGTTGGACCCCACTAGCGAATGTT
1918	TGTATGATCATCCGACCGAGCAGC	GCTGCTCGGTCGGATGATCATACA
1919	AGTGCGCCGAGAGGGTGAATAGAC	GTCTATTACCCCTCTCGGCGCACT
1920	AGGCTTGTCTGGACCAGCACCAT	ATGGTGCTGGTCCAGAACAGCCT
1921	GGGGCCACATAAAGAATTCCGAAC	GTTCGGAATTCTTATGTGGCCCC
1922	TGGTGAAGATAAATCCGCATGGCA	TGCCATGCGGATTATCTTCACCA
1923	ATTTCCACCACGCTTGCCTAAAT	ATTTGGCAAGAGCGTGGTGGAAAT
1924	CGCGTAAAGCTGTCACCGATGACC	GGTCATCGGTGACAGCTTACGCG
1925	TCCCCAACCGGTAACAACAGCGAC	GTCGCTGTTGTTACCGGTTGGGA
1926	CCTCTGCTCGCCTTACACCCATGG	CCATGGGTGTAAGGCGAGCAGAGG
1927	CAAGCTGCTCCTGTGCTGAAGGGC	GCCCTTCAGCACAGGAGCAGCTTG
1928	AAACGAACGATGGTCGGTAGACCG	CGGTCTACCGACCATCGTCGTT
1929	TCAGTTGATGGCTATTGCGCCTC	GAGGCGCAATAGCCATCGAACTGA
1930	GGCTCTAACGGACGCAAATCATA	TATGATTGCGTCCGTTGAGAGCC
1931	AGTAGAGTGTGCGGCTGCCGATC	GATCGGCAGCCGCAACACTCTACT
1932	AGACACTAGACCGCCGTGACCTGA	TCAGGTACGGCGGTCTAGTGTCT
1933	ACCGAGCACCGAATTCTCTGTCC	GGACAAAGGAAATTGGTGCTCGGT
1934	CCGTGGCCAAGATACGAACGAATT	AATTGTTCGTATCTGGCCACGG
1935	CCTCCTACAGCATCCACATGAGGG	CCCTCATGTGGATGCTGTAGGAGG
1936	CACTCGGCAAATACGTATGCGCAT	ATGCGCATACTGTTGCCGAGTG
1937	ACCGAGTTGAAGCACGAATTGGG	CCCAAATTGCGCTTCAACTCGGT
1938	GACCACCTCGGAAGATGTTCTGC	GCAGAACGATCTCCGAGGTGGTC
1939	TCAACTGGGCAAACGAAGAGCACA	TGTGCTCTCGTTGCCAGTTGA
1940	GCTTAGCCTCACACGTGCATACCA	TGGTATGCACGTGTGAGGGCTAACG
1941	CTGCGGTCTCCAAGTACCATTCG	CGAAATGGTACTGGAGACCGCAG
1942	GTTCCGTATTACGGCGGCCATAAG	CTTATGGCCGCCGTAATACGGAAC
1943	ATCGACGCAACCGGATAGTCTCTG	CAGAGACTATCCGGTGCCTCGAT
1944	CGCAGATAAACCGGCATCTTCAG	CTGAAAGATGCCGGTTATCTGCG
1945	ACCTGCCAATACGGGCTACGGTT	AACCGTAGACCGTATTGGCAGGT
1946	ACACCTGTTGCCATGCTGATCCGT	ACGGATCAGCATGGCAACAGGTGT

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1947	AAACTGTCTACTGCGCAATTCCGC	GCGGAATTGCGCAGTAGACAGTTT
1948	GCAACTAGCCCGTGTAGGATCGT	ACGATCCTAGCACGGGCTAGTTGC
1949	TCGTAGTGGTGGATTGTTGTGCGT	ACGCACAACAATCCACCACTACGA
1950	GGCTTAECTCCTCAATTGCGACACG	CGTGTGCAATTGAGGAGTAAGCC
1951	CACGACTCCCTGCCAGATTGATT	AATCAAATCTGGCAGGGAGTCGTG
1952	CTTAGACGTCGGCAATGTCACGTC	GACGTGACATTGCCGACGTCTAAG
1953	CTCAGAGCACAAATCTGCCCTGCCT	AGGCAGGGCAGATTGTGCTCTGAG
1954	GCTAGGAAAGTCGGCATTGAGGG	CCCATGAATGCCGACTTCCCTAGC
1955	AAAGCCCCAAAATTCCGCCTAAC	GGTTAGGCGGAATTGGGGCTTT
1956	GCGCAACGCTAAGGGACTATCAAG	CTTGATAGTCCCTAGCGTTGCGC
1957	CGTCCGCTGGGATGAGTCTCCTGC	GCAGGAGACTCATCCCAGCGGACG
1958	ACAGGCCTCGTGATTGGTGTGGT	ACCCACACCAATCACGAGGCCTGT
1959	CATTCTCCTCCGGGACCACGCCT	AGGCGTGGTCCCGGAAGGAGAATG
1960	TCGGAGTTGACCAAGCTCAGTGC	CGCACTGAGCTGGTCAACTCCGA
1961	ACCGGCCACTGCAATTGCAAACAC	GTGTTGCAATTGAGTGGCGCGT
1962	AGTTCATGGAGCCGGCGTATTGTT	AACAATACGCCGGCTCCATGAAC
1963	ACGTTTAATGCGGGGCCCGCCTAC	GTAGGCAGGGCCCCGCATTAAACGT
1964	TGAGGCTTACGCTACGCGCAGGT	ACCTGCGCGTAGGCTAAAGCCTCA
1965	CAGCGTTATGAGCGCGGAGTTAT	ATAAACTCCCGCGCTCATACGCTG
1966	GTCCACGTGACCACGGATAGTTGG	CCAACATCCGTGGTCACGTGGAC
1967	GATTATGCTCCTACGCCCTGCTCCG	CGGAGCAGGCGTAGGAGCATAATC
1968	TCGTCAAGGGCATGATGTGTTGG	TCCCACACATCATGCCCTGACGA
1969	GATGGACCGCCAAAGACACCTTGA	TCAAGGTGTCTTGGCGGTCCATC
1970	TACACGAGGATGGGTCAAGCTTT	AAAGCTTGACCCATCCTCGTGT
1971	ACACGCACAAACGTTGAAAGGC	GCCTTCAAACGTTGTGCGTGT
1972	GTTATCGTGGGCCATGGTACTGA	TCAGTACCATCGGCCACGATAAC
1973	ACATGACCGTATCCGCCTGCTCG	CGAACGCAGGGGATACGGTCATGT
1974	GAAGGCAGACCACTGAAACTACGC	GCGTAGTTCACTGGTTCGCCCTC
1975	TGACTTTGCAACGGTGGAAACCA	TGGTCCACCCGTTGAAAAGTCA
1976	TGAATTGTTAGGTTGGTGC	CCGCACCCAAAACCTACGAATTCA
1977	AGCATTATGAAGCGGCCATTGCG	CGCAATGGCCGCTTACAAATGCT
1978	TGCTCCTCGCGTTGGTACCGTGAG	CTCACGGTACCAACGCGAGGAGCA
1979	CGCAGCAAGAAACAGCAACTGTTG	CAACAGTTGCTGTTCTGCTGCG
1980	AGACGCTTGGAGTAAAAACTCGGA	TCCGAGTTTCACTCCAAGCGTCT
1981	CATTGTTAGAATGCCCAAATGGA	TCCATTGGGGCATTCTACGAATG
1982	CCAGAAGGTTGGGCCACCGTGT	CACGACGGGCTCCGAACCTTCTGG
1983	GAGAAGCCGGTTCTCAGAGCACAT	ATGTGCTCTGAGAACCGGCTCTC
1984	TTGCGTTGCAAGATATCTGGCCCG	CGGGCCAGATATCTGCAACGCAA

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1985	GGGTTGCATGTTCAGGCAAGACGA	TCGTCTGCCTGAACATGCAACCC
1986	CTCACGAAGGTGACATATCACGCC	GGCGTGATATGTCACCTCGTGAG
1987	GCCCGAGATACTGGGTTAAAAAGA	TCTTTTGAAACCCGTATCTCGGGC
1988	CATCTTCGCGCTTCTTCACTCCGC	GCGGAGTGAAGAAGCGCGAAGATG
1989	TTACACGGTAAGCGTACGGCGCC	GGCGGCCGTACGCTTACCGTGTA
1990	ACCTTCGGACAATGTGGCGTTCGC	GCGAACGCCACATTGTCCGAAGGT
1991	TGAATGGTCTGCTAGGCCCACAC	GTGTGGGCTAGCAGAACCAATTCA
1992	CACGCCTGTCTGACATATGGATGC	GCATCCATATGTCAGACAGGCCTG
1993	CGCCTCAACCCAATCTGAGAACGT	ACGTTCTCAGATTGGGTTGAGGCG
1994	TTACGCTTACTGCGAGCTGGGTCC	GGACCCAGCTCGCAGTAAGCGTAA
1995	GGCTTGTGGGCAATACGCATCTT	AAGATGCGTATTGCCCAAGGCC
1996	CACTCTCCTTGGATGCGGAAACAA	TTGTTCCGCATCCAAAGGAGAGTG
1998	GACCAGCCATCACGTAACGCCCT	AGGGCCGTTACGTGATGGCTGGTC
1999	AGGAACCGGATGTGGTTATGGAGC	GCTCCATAACCACATCCGGTTCC
2000	ATCCATGGGCAACTGAGCCTATGC	GCATAGGCTCAGTTGCCATGGAT
2001	GGAACAGCACTTGTACCGCCAC	GTGGCGGTAAACAAGTGCTGTTCC
2002	TGGCTCGCTTCAAGCCTGTTGCT	AGCAAACAGGCTGAAGCGAGCCA
2003	CAAACGTGAGGTCATGACCACCAT	ATGGTGGTCATGACCTCACGTTG
2004	ACCGATGTCTTGAAGTCCGGAGGT	ACCTCCGGACTTCAAGACATCGGT
2005	CGAAAATGCATGATGATCTCCCCT	AGGGGAGATCATCATGCATTTCG
2006	TTTGGTATTCTCGCTGCACCGTTG	CAACGGTGCAGCGAGAACACAAA
2007	GCGTACTCAACCACATTCCCGACC	GGTCGGGAATGTGGTTGAGTACGC
2008	AGCAAACAAACAGCGGTCCGAGCAT	ATGCTCGGACCGCTGTTGTTGCT
2009	GGACTAGGAGCGGGGATAGCTGAG	CTCAGCTATCCCCGCTCCTAGTCC
2010	CCTTAACGAAAACCTGTCGACCGC	GCGGTCGACAGGTTTCGTTAACGG
2011	CTCGATCGCATAAGCAAGAAACCG	CGGTTCTGCTTATGCGATCGAG
2012	CCCGTTGTTGGCGACAAAAAGT	ACTTTTGTCGCCAAACAAACGGG
2013	CGGCGGCTCGCATGATCTCGTT	AACGAGATCATGCGAGAGCCGCCG
2014	CGGATGGAGAGGAGTCTACGTCCC	GGGACGTAGACTCCTCTCCATCCG
2016	CAGAACAAATCGTGCCTAACCG	CGGTTGACGCACGATATTGTTCTG
2017	CCTTGCGCGCTCCGAGTAAGGTA	TACCTTACTCGGAGCGCGCAAAGG
2018	GGAAACGGCACCTATCTGCGTGA	TCACGACAGATAGGTGCCGTTCC
2019	CGACCGACAAAACCAATGCCGCC	GGCGGCATTTGGTTTGTGGTCG
2020	CCAAGGGTGTGGAGCTGAAGAGA	TCTCTCAGCTCCCACACCCCTGG
2021	TTAAGTGCCTAGTCCTCGTGGG	CCCACGAGGACTATGCGCACTTAA
2022	GCCTGGTGGGTAAGTCATGATGC	GCATCATGACTTACCCACCAGGC
2023	GAGCAGCAGATTGATGCGCTTATG	CATAAGCGCATCAATCTGCTGCTC
2024	TGCGCCAACCTCCGGAATATTGC	GCAAATATTCCGGAAGTTGGCGCA

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2025	AACCCCACATCATGAAATGCTCTCCG	CGGAGAGCATTCTATGATGGGGTT
2026	GTCCAACGGTACTGGCGTATGTT	AACATCACGCCAGTACCGTTGGAC
2027	ACTCGGCTGATCGTGAGATGGTGA	TCACCACATCTCACGATCAGCCGAGT
2028	ATTCGTGGCGCATCTCGGAATGT	ACATTCCGAGATGCGCCCACGAAT
2029	TCCCGTCCTGTAATCCAGGGAAACA	TGTTCCCTGGATTACAGGACGGGA
2030	CTTCGCTGCACCTACATTGCGCCA	TGGCGCAATGTAGGTGCAGCGAAG
2031	GCGTGTAGATGACTGTGCTTGGG	CCCAAAGCACAGTCATCTACACGC
2032	CTATGGTATCGAGACATGGCGGA	TCCGCCGATGTCTCGATACCATAG
2033	CCTCGTACTCCGTCGTATGCACAA	TTGTGCATACGACGGAGTACGAGG
2034	TGGTGCCTCCGTAGTGCCTGCACT	AGTGCAGGCACTACGGACGCCACCA
2035	CGCGATCCTAGTTGAAAGCTTGC	GCAAAGCTTCAACTAGGATCGCG
2036	ACGATCCAGGTGTTGGGACTAAG	CTTAGTGCCAACACCTGGATCGT
2037	CCAATCTAGGATACACCACGCCCG	CGGGCGTGGTGTATCCTAGATTGG
2038	GATACGTGGGTATAGGCAGGGCCC	GGGCCCGCCTATAACCCACGTATC
2039	CATGGAACAAACCGTCGTAGGGGA	TCCCCTACGACGGTTGTTCCATG
2040	ACACTCGCGCAGTATTGAGTCGT	ACGACTCGAATACTGCCGAGTGT
2041	CTCAGTCTCGAAGGTGATCCGACC	GGTCGGATCACCTCGAGACTGAG
2042	TCCCAATCCCCGTGGTATCGTCGT	ACGACGATAACCACGGGGATTGGGA
2043	AATCAACGTAGTTCCGGTGGTCCG	CGGACCAACCGGAACACTACGTTGATT
2044	CTTAACAAACCCAGGGGTTGGGCT	AGCCCAAACCCCTGGGTTGTAAG
2046	CTACCGCTGCATGGCGTTAGATTG	CAATCTAACGCCATGCAGCGGTAG
2047	TTATTGGTGGCGGACGGAGTGAGT	ACTCACTCCGTCGCCACCAATAA
2048	TTAAGGGTGAACCTAACCGCGTGA	TCACCGGGTTGAGTTCACCTTAA
2049	TTTGATTGAAACGCTGCGCACTAC	GTAGTGCAGCGCTTCAATCAA
2050	TCATGTGTAGGTCGCGGCCGTAC	GTGACGGCCGCGACCTACACATGA
2051	CTCCGAACCTCTGGGCCTCTTT	AAAAGAGGCCAGAAGGTTGGAG
2052	CTGTTGCCATTGGCCCGACACTC	GAGTGTGGCCAATGGCAACAG
2053	CACGATCGCTGAGAACACATCAC	GTGATGTGTTGCTCAGCGATCGT
2054	CGGATCATAAGCGTCCGCCCTCGT	ACGAAGGCGGACGCTATGATCCG
2055	AGGTTAACGCAACATGTATCCGC	GCGGATCACATGTTGCGTTAACCT
2056	GGGAAAAACAGCTAACGCCCTGCA	TCGCAAGGCTTAGCTGTTTCCC
2057	ACTTATTGCCGGGATCCGTACACA	TGTGTACGGATCCCGGCAATAAGT
2058	TGCGGTCTGGAAAGGAAGGGAGGG	CCCTCCCTCCTTCCAGACCGCA
2059	GCTGCCACCTGGACATCGCATACA	TGTATGCGATGTCCAGGTGGCAGC
2060	GCAGGCATGACAGTGGCGTAGTAC	GTACTACGCCACTGTATGCCCTGC
2061	GCAGGCCCTGATGGTTGGCTGAGC	GCTCAGCCAAACCATCAGGGCCGC
2062	TCCCCATTAGTCCCTCCATCAC	GTGATGGAGGGACTAAATGGGGA
2063	GCAACACAAATGCGAGCGTAGGAG	CTCCTACGCTCGCATTGTGTTGC

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2064	GGCGTTGTATTGAGGCCACGTAG	CTACGTGGCTCGAATACAAACGCC
2065	GGTAACGTCGCACGTGGAATCCG	CGGAATTCCACGTGCGACGTTACC
2066	ACTTCACAAACGCTCCGTTGGACAC	GTGTCCAACGGAGCGTTGTGAAGT
2067	CCGAATTATAAAGCGCAAGGCACA	TGTGCCCTGCCTTATAATTGG
2068	GGACCCGATAAGACTCTGACGCCG	CGCGTCAGAGTCTTATCGGGTCC
2069	ACCCGTTCTCGTAGGAACCTGCT	AGCAGGTTCTACGAGAACGGGT
2070	CACGTTCACTGTATCTGGTTGCC	GGCAACCAGATACAGTCGAACGTG
2071	CCTCGGATGGGCCATGACCTTGA	TCAAGGTATGGGCCATCCGAGG
2072	GGACGCCTGCTGTAGGGTTGAT	ATCAAACCCCTACAGCAGGCGTCC
2073	CTCGAGCGTGGCTAAAAGAGCAT	ATGCTCTTTAGCCCACGCTCGAG
2074	TTTACTTCTTAGGGCGCGTTGGG	CCCAAACGCGCCCTAAGAAGTAA
2075	ACCACCAACATAGCGCGCACTAGT	ACTAGTGCAGCCTATGTTGGTGGT
2076	TGGTTACACGGCAGCCCGCGTAAG	CTTACGCGGGCTGCCGTGTAACCA
2077	TTATGGTACGTTGCTGCGTGCAGG	CCCGCACGCAGCAACGTACCATAA
2078	ACCGCGGATCTAACGAATCCCATT	AATGGGATTGTTAGATCCGCGGT
2079	CATGATCCCGCCCTAGGTTAACG	GCTTAACCTAACGGCGGGATCATG
2080	TACCGCTTCAAAGGGTTGCCAAT	ATTGGCAACCCCTTGAAGCGGT
2081	GCACCGCGTCAATATTACCGAGGA	TCCTCGGTAATATTGACCGCGGTG
2082	GTGTCGGCTTACAGAAGGAGA	TCTCCTTCTGAAAGCCCGACAC
2083	GCAAGCCATACCGCAATAACTCG	CGAGTTATTGCGGTATGGCTTGC
2084	ATGAGGTGCGCTGCGTTACGAG	CTCGTGAACGCAGCACGACCTCAT
2085	CGAGACTAGTGCCGATGCAGGGTA	TACCCCTGCATCGGCACTAGTCTCG
2086	GCCTCATCATAGACGCTGGATGCA	TGCATCCAGCGTCTATGATGAGGC
2087	GACAGGCGTCGGTAAGCTCTCAAG	CTTGAGAGCTTACCGACGCCCTGTC
2088	GCTACGAATCTCCCTGTCGCCAC	GTGGCGACAGGGAAGATTGCTAGC
2089	TTTGGCAGAACGTACCAAGTGGGT	ACCCCACGGTACGTTGCCAAA
2090	GGACAATAAGCACCGGAGATGCG	CGCATTCTCCGGTGCTTATTGTCC
2091	TCATGAACCTTCTGATGCCGCAA	TTCGCGGCATCAGAAGGTTCATGA
2092	CGCCGCATTACCTAAAAACGTGC	GCACGTTTTAAGGTAATGCGCG
2093	ACGAGTCCAACCGCCTATTGATT	AATCAATGAGGCGGGTGGACTCGT
2094	GGAAAGAGTTGCTACTCTCCGCC	GGCGGAAGAGTAGCAACTCTTCGC
2095	CGTCGGCAACAAATCTTTCTGTGA	TCACGAAAAAGATTGTTGCCGACG
2096	AATCCTGTGCACCCGTGAGACGCG	CGCGTCTCACGGGTGACAGGATT
2097	AACCTATATGCATCAACGCGAGCC	GGCTCGCGTTGATGCATATAGGTT
2098	GAACCTGGCAAAACAGCCGGAAA	TTTCCGGCTGTTGCCAAGTTC
2099	CTCTATGGCCGTTGCCGTGCA	TGCAGACGGCAAACGGCCATAGAG
2100	AGTGCACCGGGTTGACACAAT	ATTGTGTCACAAACCCGGTGCAC
2101	CCTGGCTTTCACACGCCAAGAAA	TTTCTGGCGTGTGAAAAGCCAGG

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2102	CACTCAGCGTAGCCTGAAGCCTGG	CCAGGCTTCAGGCTACGCTGAGTG
2103	GAATTATCGACCGCAGCGGTGTCG	CGACACCGCTCGGGTCGATAATTG
2104	GTGACATCACATGGTGGCCGAGCG	CGCTCGGCCACCATGTGATGTCAC
2105	AGCACCTGCCGAGTCACCAGTGA	TCACTGGTACTCGGCAAGGTGCT
2106	TAGGTTGCAGGAATGGTGGCACC	GGTGCCCACCATTCTGCAACCTA
2107	GTCCCATACTGTGGTACGCGGAT	ATCCCGTACCAACACGTATGGGAC
2108	TCGGATACTCTCGCGTGCCACGGG	CCCCTGGCACCGCAGAGTATCCGA
2109	CAACGTTGCCCTAAGCCCCAAT	ATTTGGGCTTAGGGCGAACGTTG
2110	GTTAGGTACCGCGGCATATCCTA	TAGGATATGCCCGGGTACCTAAC
2111	GTTCACCGGCCTACTTGGGTTT	AAACCCAAGTAGAGGCCGGTGAAC
2112	AATCCCGTCTAGGTATGTGGTC	GACCACATGACCTAGACCGGGATT
2113	GCTACGCCTCTGGAGGTGGTACCC	GGGTACCAACCTCCAGAGGCGTAGC
2114	CAGGGAAATGCTACAAAGGGTCCAA	TTGGACCCTTGTAGCATTCCCTG
2115	AAGGGTTAGCTGCCCGGTTAACAG	CTGTTAACCGGGCAGCTAACCCCTT
2116	CCTCGCAAGCGCGATATTATGCC	GGCATAAAATATCGCGCTTGCAGG
2117	GCCTCCCGGTATGGTCAAGGGAA	TTCCCTTGACCATGACCGGGAGGC
2118	GCTGTTGAGCGGCGACCTGTGCAC	GTGCACAGGTGCGCGCTAACAGC
2119	CGCTGACTTAGCTCTGATGTGCCG	CGGCACATCAGAGCTAAGTCAGCG
2120	TTCATGGCATTCATCACGAAGGAA	TTCCCTCGTATGAATGCCATGAA
2121	TAGTGTATGCCCGGTGTGAATG	CATTACACCGGGCATAACACTA
2122	CATGTAAGGGCACGGTCGTGGCA	TGCCCACGACCGTGCCCTACATG
2123	CAGGAAGCTCGCTCCGTATGCAC	GTGCATCACGGAGCGAGCTTCCTG
2124	CCTGCTGATAGCAACCTCACTGCA	TGCAGTGAGGTTGCTATCAGCAGG
2125	ACTACGAGGGCAGGGTCTAGGCG	CGCCTAGACCTGCCCTCGTAGT
2126	CATAATGTGGGTGCTGACGCCGAT	ATCGCGTCAGCACCCACATTATG
2127	TAGCGAATCCACACAGAGCCGCTC	GAGCGGCTCTGTGTGGATTGCTA
2128	TCGCGAAATCCCTAAATCCTGTGC	GCACAGGATTAGGGATTCGCGA
2129	TGGCACGAATCAAGCCACCAACTC	GAGTTGGTGGCTTGATTGTCGCA
2130	GC GGACCGTCTTGCTATCTGACG	CGTCAGATAGCAAAGACGGTCCGC
2131	AGGCCCCGCCTTGTATTGGTCAT	ATGACCAATTACAAGGGGGCCT
2132	CTGGTCCCATACTGCCGCTGACTAG	CTAGTCAGCGGCGTATGGGACCAG
2133	TGCTAACTCGGCCCTACAGAGTC	GA CTCAGTGAGGCCGCAGTTAGCA
2134	TGGTTTATGTTCGGTAGCGTCCG	CGGACGCTACCGAACATAAAACCA
2135	AGCTCAAACCTCTCCCACGGGATG	CATCCCCTGGGAGAAGTTGAGCT
2136	CGCGAAGATAGTCAAATCCGCATC	GATGCGGATTCACATCTCGCG
2137	GAGTGAACACCTCTCGCGGGTTGCA	TGCAACCCCGCGAGAGGTTCACTC
2138	TCGAATGCTCTGCAGTGACGTCAA	TTGACGTCACTGCAGAGCATTGCA
2139	AGGTGGCAATGATCGACGACCCCTG	CAGGGTCGTCGATCATTGCCACCT

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2141	GTCCGGAGCCGTGCAAAGCAATAA	TTATTGCTTGACGGCTCCGGAC
2143	CTTTGGGATTAGAGGCCGACAA	TTGTCGGCCTCTAATCCCCAAAAG
2144	GGCATAAAGGCTTCGTTCTGTC	GACAGGAACGGAAGCCTTATGCC
2145	GCGGACCGTAAAGCAGGGCAGATAG	CTATCTGCCCGCTTACGGTCCGC
2146	TTTCAAGAGTGCATGAATCCACG	CGTGGATTGATGCACTCTTGAAA
2147	CCGGCATCCCTCTCGCTGTTGCC	GGCAACAGCGAGAAGGGATGCCGG
2148	ACACAGAGACGCGAACGGAGTGCA	TGCACTCCGTTCGCGTCTGTGT
2149	AGCGGCATTCTCCCACTCGTTACT	AGTAACGAGTGGAGAATGCCGCT
2150	GGAGCGTACTGCGCCTCGCAAGTC	GACTTGCAGGGCGCAGTACGCTCC
2151	AAACCCGAATGACACGGCAGATAA	TTATCTGCCGTGTCATTGGGTTT
2153	AACCAGCGGATCGATAAAACGACA	TGTCGTTTATCGATCCGCTGGTT
2154	GGTGTCCACCCGTTAACGCCGGTA	TACCGCGTTAACGGTGGACACC
2155	AGCGCGACGTGGCTGCCGTTAAA	TTAACGGCAAGCCACGTCGCGCT
2156	TCCCACGGCTATAGGTCCAACGAC	GTCGTTGGACCTATAGCCGTGGGA
2157	ATCAACGAACGATGCCGTTAGGTG	CACCTAACGGCATCGTTCGTTGAT
2158	GAGGCTAACCGTATGGCCGAGGC	GCCTCGGCCATACGGCTTAGCCTC
2159	ACGGTCCGAAATGGTTAGAGGCAC	GTGCCTCTAACCAATTCCGGACCGT
2160	ACGCAAACCATTCCTCGAGTAGGC	GCCTACTCGAGGAATGGTTGCGT
2161	TTACACGCTCGCTATTGGGCCATA	TATGGCCAATAGCGAGCGTGTAA
2162	CTCGGCACGGTTAGAACGCCGG	CCGGCGTTCTAAACCCGTGCCGAG
2163	ATTCGGTAAGGTATCGGGCTAGCG	CGCTAGCCCAGACCTTACCGAAT
2164	AGCACACCGTTATACATGACGGCG	CGCCGTCATGTATAACGGTGTGCT
2165	AGTCCCTGCCGTTCGCTCATGGAA	TTCCATGAGCGAACGGCAGGGACT
2166	GGGCTTATGACCAGTCAGGTTGGA	TCCAACCTGACTGGTCATAAGCCC
2167	GGTCACCACACGAGTCGCTGGTCT	AGACCAAGGCACTCGTGTGGTACCC
2168	TTGATCGTGTCTCCGAAACCCCTC	GAGGGTTTGGGAGACACGATCAA
2169	ATTGTCGCGATCGGCATTCTTAA	TTAAGAAATGCCGATCGCGACAAT
2170	GGGTCCAACGACTCTCGCTGCTG	CAGCAGCGAGAAGTCGTTGGACCC
2171	CAAATTCTGGGGGCCATAGTGG	CCACTATGGCCCCAAGGAATTG
2172	CCAGAGTATCCGCCGTTAGACGGT	ACCGCTAACGGCGGAACTCTGG
2173	TCCTGCAGATCATCTCGTGTCTGG	CCAGACACGAGATGATCTGCAGGA
2174	TGCGGGAGATTGAACAAAGCTGA	TACAGCTTGTCAAATCTCCGCA
2175	TTAGACGCCGAGCTAGGCAACGTC	GACGTTGCCTAGCTCGCGTCTAA
2176	TTTCGGCAGAATCTCCGATTCAAC	GTTGAATCGGAGATTCTGCCGAAA
2177	TGGCGAGCAGACCTACAAGACAGA	TCTGTCTGTAGGTCTGCTCGCCA
2178	GGCGACAGACCGGTACATCGGCCA	TGGCCGATGTACCGGTCTGTCGCC
2179	TCTAGACCTGCCTCGTGGGACC	GGTCCCACGAAACGCAAGGTCTAGA
2180	GCCGAGCGTGGTACCATACGTTCA	TGAACGTATGGTACCAACGCTCGGC

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2181	TAATCACACCCGCTTCTGTGGCT	AGCCACAGAAAGCGGGTGTGATTA
2182	GGCCGGAGCCATTGGACACTTCTT	AAGAAAGTGTCCAATGGCTCCGGCC
2183	CCTGTAGACCTGCATGGATCGCTG	CAGCGATCCATGCAGGTCTACAGG
2185	ATCGCCGTTCCCGCAAAATAAGCA	TGCTTATTTGCAGGAACGGCGAT
2186	TGGATCAACGGGGTAGTGAAAACG	CGTTTCACTACCCGTTGATCCA
2187	AAGCGACGATGCTTCTTGAGCTG	CAGCTCAAGAAAGCATCGTCGCTT
2188	CACGGGCACGTGTTACGCTTGC	GCAAGCGTAGAACACGTGCCGTG
2189	ACGGGCTGGGACAAGAGCTAGAAA	TTCTAGCTTTGTCCCAGCCGT
2190	GGTAACTGGCTCCGCTCTCACATC	GATGTGAGAGCGGAGCCAGTTACC
2191	ACTCTGGCTGTTGGCAACGTGAC	GTCACGTTGCCAACAGCCAGAGT
2192	GACCGAGGACCAGTCCTGCTCTC	GAGAGCAAGGACTGGTCCTCGGTC
2193	AGTAGCTCTGGCTTAACGGCA	TGCCGTTAGGCCGCAAGAGCTACT
2194	TTCTTGCTCTGGGGAGAGCAGTG	CACTGCTCTCCCCAGGACAAGAA
2195	TTAGCAGGGAGGTTGTCGGCTCAT	ATGAGCCGACAACTCCCTGCTAA
2197	AGAACGTGGATTGTACGCTCCGCC	GGCGGAGCGTACAATCCACGTTCT
2198	CTTCACAGCCTGGAGCCACCAATG	CATTGGTGGCTCCAGGCTGTGAAG
2199	GAGATCGATGAAACGCACCAAGCGG	CCGCTGGTGCCTTACGATCTC
2200	GGGTCCAGAGTTGGTGTGGATAA	TTATCCCACACCAACTCTGGACCC
2201	CCGTCCACCCCAGATAGGAATCAC	GTGATTCTATCTGGGTGGACGG
2202	TGCCCTCGCTTCTGTGAATCTACGA	TCGTAGATTACAGAAGCGAGGCA
2203	GATCACAGCGTCCGCGATAACGG	CCGTTATGCGCGGACGCTGTGATC
2204	ATGACGCCCTACATGACGCACCTT	AAGGTGCGTCATGTAAGGCGTCAT
2205	GCGTGGAAATAACGCCCTAGTTCA	TGAACTAAGGGCGTTATTCCACGC
2206	GGTCTACCATTCTCGCCCGACCG	CGGTCGGGCGAGAAATGGTAGACC
2207	ACACCTCTGGCGTAGACGCTCA	TGAGCGTCTACGCCAGAGAGGTGT
2208	GTAGAGGTGCTCAGGACTCGTCGC	GCGACGAGTCCTGAGCACCTCTAC
2209	GTAAGCAGGAGGCGAAGGCGCGAA	TCGCGCCTTCGCCCTGCTTAC
2210	TCTAAGGGCCGTTCAATCGACCT	AGGTCGATTGAAACGGCCCTAGA
2211	AACCTGATTCAGGGTCAGCCCGA	TCGGGCTGACCCCTGAAATCAGGTT
2212	GTCACGCGATTGGCCACCTATTA	TAATAGGTGGCCAATCGCGTGAC
2213	ACGATGCCCGCATGTAACCTAGT	ACTAGGTTACATGCGCGGACATCGT
2214	TGAGAGATGTCTCGTCAACGCCGT	CAGGCCTTGACGAGACATCTCTCA
2215	GCATATCTCGCGGTGACAGACGAA	TTCGTCTGTCACCGCGAGATATGC
2217	GACCCAACGTCGAAATTGTGCGAT	ATCGCACAATTTCGACGTTGGTC
2218	TGAAAATCGGGGATCTAGTTGG	CCAAACTAGATGCCCGATTTC
2219	CCCGAAAAGGATTGTGACGCA	TGCGTACACAAATCCTTTCGCGG
2220	CATTCCATTATCCGCAGTCGCT	AGCGAACTGCGGATAAATGGAATG
2221	CCTGTCTGTCGAGCCAGCGTCTAT	ATAGACGCTGGCTCGACAGACAGG

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2222	TCAGCGCGCTAACAAAGTTATGC	GCATAACTGTTAGCCCGCGCTGA
2223	ACGCCTACGAACGACCCAAGAGAG	CTCTCTGGGTCGTTCGTAGGCGT
2224	TGCGCATCTACCATTGTGTGGATC	GATCCACACAAATGGTAGATGCGCA
2225	AAGTCCCGCGCTCGCTCCTGTAATA	TATTACAGGAGCGAGCCGGACTT
2226	GCTGGGTCAATTGCTCGAGTAACCA	TGGTTACTCGAGCAATGACCCAGC
2227	TGGAGCGTTCTGGCAATGACCGAC	GTCGGTCATTGCCAGAACGCTCCA
2228	CAAGTCAATTCTTGGCCAATTCGG	CCGAATTGGCCAAGAATTGACTTG
2229	CGTTCATGCAAGGATCCCAGGTTA	TAACCTGGGATCCTGCATGAACG
2230	ATGCCAATAGAAGCTGGGGATGCT	AGCATCCCCAGCTTCTATTGGCAT
2231	CCTAACTCTCCCTGAGGCCGTT	GAACGGCCTCAAGGGAGAGTTAGG
2232	ATCTCGGCGAAGGTTCAAACATT	AATGTTGGAACCTCGCCGAGAT
2233	GCGACAGATTACGCTGCGGTTTC	GAACACCGCAGCGTAATCTGTCGC
2234	AAGCCCAGACGGCCAACACGTTAC	GTAACGTGTTGCCGCTGGGCTT
2235	TCAAGTTCAAATCACATCCGTGG	CCACGGGATGTGATTGAACTTGA
2236	GATTGTCGTTCTGTCTGTGAGGCG	CGCCTCACAGACAGAACGACAATC
2237	ACCGAACTATGTTCCGGCATGGCA	TGCCATGCCGGAACATAGTTGGT
2238	CGTCATCGGGTGTGCAATGCCGTT	AACGGCATTGCACACCCGATGACG
2239	CGGACGGAGTCACGTTGTGCACT	AGTGCACAAACGTGACTCCGTCCG
2240	TAAACAAGTCGTGCGCTTGCCG	CGGCAAAGGCACACGACTTGTAA
2241	TAATTACTGGCCTGTGGAGCAGGC	GCCTGCTCCACAGGCCAGTAATTAA
2242	GGAGCGGCCCCAATGGTGCTCTTA	TAAGAGCACCATCGGGCCGCTCC
2243	ACTAAGCAAGGCTTGGATGTGCGT	ACGCACATCCAAGCCTGCTTAGT
2244	GGCAGCTCAGCGGCAGTACGCTAC	GTAACGTACTGCCGCTGAGCTGCC
2245	GCGAGGCGAATTATCCGCGGATT	AAATCCGCGGATAATTGCCCTCGC
2246	CATACGACACACCTGGGGTGCTA	TAGCACCCCAAGGTGTGCGTATG
2247	TGCTTGGGCTTAAACCCGTTT	AAAACGGGGTTAAAGCCCCAAGCA
2248	CCGGTTGGAAAACGCAAATACGG	CCGATATTGCGTTTCCAACCGG
2249	AAACTAGCTAGCCGCACCCGCAAG	CTTGCAGGGTGCAGCTAGCTAGTT
2250	GTTGTTCCACCAAGTGTACCGCAG	CTGCGTGATCACTGGTGGAACAAAC
2251	GCCGCTGACAAGATGATCATCGTT	AACGATGATCATCTGTCAGCGGC
2252	CTTCATAAAGCCAACCGATGCC	GGGCATCGGTTGGCTTATGAAAG
2253	CTGACTGCATCTGAAAGCGGGTG	CACCCGCTTCGAGATGCAGTCAG
2254	ATTCTTCGGAGAACGGCACGT	ACGTGGCCGATTCTCCGAAGAAAT
2255	CATTTGGGCCCTAGCTACTGCGC	GCGCAGTAGCTAGGGCCGAAATG
2256	CCGATCCCGCACATCCGTATCTG	CAGGATAACGGATGTGCCGGATCGG
2257	TATCACCGGGAGCGTCTATCGT	CACGATAAGACGCTCCCGGTGATA
2258	TAGGGCTCGTGCACCGATTAGAGG	CCTCTAATCGGTGCACCGAGCCCTA
2259	GCGTGGCACTCGCTGTCTAGGTA	TACCTAGACAAGCGAGTGCCACGC

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2260	CTCAACGAACCTAAGGGCCGCTAC	GTAGCGGCCCTTGAGTCGTTGAG
2261	AGCCTGGTATCGACCAATCCTGCA	TGCAGGATTGGTCGATACCAGGCT
2262	TACGCGTTCTAGTTGGCCGGATCC	GGATCCGGCCAAGTAAACGCGTA
2263	TTTATGGTTTGTGCCTGATGGGT	ACCCATCAGGCACAAACCCATAAA
2264	GGGACCCCTAGCAACGTCACCTTA	TAAGGTGACGTTGCTAGGGTCCC
2265	CTGCCTCCCCAGGAGTCATTGGAT	ATCCAATGACTCCTGGGGAGGCAG
2266	AACCCCCGCAAGACCAGTACCAATC	GATTGGTACTGGTCTTGCAGGGTT
2267	GGTCACATA CGCGCTAAAAGCGC	GCGCTTTAGCGCGTATGTGACC
2268	AAATGGCTCCGACCAGTTAGGGAC	GTCCCTAACTGGTCGGAGCCATT
2269	AACCGGGCACGCTAAAGGTGCAT	ATGCACCTTAAGCGTGCCGCGTT
2270	GATCGCACGCCGATTAACCTTACA	TGTAAGGTTAACGGCGTGCATC
2271	CCTCCTGATTGGGAGTGCAGGAATT	AATTCCGCACTCCCAATCAGGAGG
2272	CGGAGGGTAATAGGCTCCTCTGCG	CGCAGAGGAGCCTATTACCTCCG
2273	ACAAGAACTGGACATTACCGCGGG	CCCAGGGTAATGTCCAGTTCTGT
2274	TGTCGTCTTAAAGGCCTTGTGCG	CGCACAAAGGCCTTAAGACGACA
2275	GGTGACCATGTGGCGTTTAGCTT	AAGCTAAAACGCCACATGGTCACC
2276	CACGGTTGCGCACGGTACCAAGAAC	GTTCTGGTACCGTGCACACCAGT
2277	CCTTATTGTTGGTCCCCTGCC	GGGCAGGGGACCAAAACAATAAAGG
2278	GTGCGCTGCATTCTACCGTCAAT	ATTGACGGTAGAACATGCAGGCGAC
2279	GTTCACGTTGATGGCTTGCAGCG	CGGCGGAAGCCATCAACGTAAC
2280	CCGTCGGTGGTAGGACGTAAATGT	ACATTACGTCCTACCAACCGACGG
2281	TGATCGCCCCAGAACCTGTGCT	AGCACAGGGATTCTGGGGCGATCA
2282	AAGCAGCCAAAATCGGTTGCTT	AAAGCAACCGATTGGCTGCTT
2283	CGACGGGACTTAGTAGCAGGGCCT	AGGCCCTGCTACTAACGTCCGTCG
2284	CCGATTGCGAAACGACCAAGTAG	CTACTTGGTCGTTCGCGAACCG
2285	CCACCCCCACTCAATCTTCTCA	TGAGAAAGATTGGAGTTGGGTGG
2286	GTGCAGTAGACGACTACCGCGTC	GACGCCGGTAGTCGTACTGCAC
2287	TTCGCCCATCGTATCAAGCAATT	GAATTGCTTGATACGATGGCGAA
2288	GAATCGCGACTACCGTCGGGTCA	TGACCCGACGGGTAGTCGCGATTC
2289	CCAGCACTGCCATCGTTATAAT	ATTATAACCGATGGCGAGTGTGG
2290	CGAACCGTAGAACCTCGGTGGTG	CACCGACCGGAGTTCTACGGTCG
2291	GCACCATGACAGAGCCCCAGGATG	CATCCTGGGGCTCTGTCATGGTC
2292	TGGGCTACCGCAGAATAAGGGTGA	TCACCCATTCTGCGGTAGCCCA
2293	TGGCCTGTCGTGTCGAAGGAAACA	TGTTTCCTCGACACGACAGGCCA
2294	GCCTCACCGATAGCGAGCGTTGC	GCAAACGCTCGCTATCGGTGAGGC
2295	GTGCGCGCCGGCTAAACGAGACA	TGTCTCGTTTAGCCGGCGCGCAC
2296	CCGCAGACGAGTTCTGTGACAG	CTGTCACAAGAAACTCGTCTGCGG
2297	GTTCGCAATCGCGTGCTAGGAAGC	GCTTCCTAGCACGCGATTGCGAAC

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2298	TGTTGTACACATGCATCCGGTGAA	TTCACCGGATGCATGTGTACAACA
2299	CACTGAACACGATATAAGGGCGCG	CGCGCCCTTATATCGTGTTCAGTG
2300	CGCGATGGTTCTTAGCAAGACGAT	ATCGTCTTGCTAAGAACCATCGCG
2301	TACACCAAGGAAGAAATGGGGACG	CGTCCCCATTCTTCCTGGTGTA
2302	CGTGCTTGCCTTCTGGCAGTACGGC	GCTGCACCTAAAACGCAAGGCACG
2303	GTCGTTGTCTGGCATTAAACGGC	GCCGTTAACGCCAGACAAACGAC
2304	CAGGCTCTCGTTGGTACAAACGT	ACGTTGTACCGAACAGAGAGCCTG
2305	CGGACACTGTTCACCAAGAACCCA	TGGGTTCTGGTAAACAGTGTCCG
2306	TACCCATGATGCGGAAGAACGTA	TACGCTTCTTCCGCATCATGGGT
2307	CTGTCCCTAACGGATGAGAACCG	CGGTTCTCATCCGCTAACGGACAG
2308	CGGGAGATGAGAACGGTTGTGC	GCACAAAACGTTCTCATCTCCC
2309	TAGATCGCGACTGTACTCAGGCCG	CGGCCTGAGTACAGTCGCGATCTA
2310	TAAAACAGTTCGCGCGACTGTCGT	ACGACAGTCGCGAACACTGTTTA
2311	CGAGGAGCTCCACATAAGCCAAAT	ATTGGGCTTATGTGGAGCTCCTCG
2312	TGGCTAGGGATGGGAATCATCTT	AAGATGATTCCCCATCCCTAGCCA
2313	AGGATTGGGTGCCTGGATGCATTG	CAATGCATCCAGGCACCCAATCCT
2314	TGTATCTACCGGCCTGAAGCAGGT	ACCTGCTTCAGGCCGGTAGATACA
2315	TCCCTACGCGCATGACTCGCTTAC	GTAAGCGAGTCATGCGCGTAGGGA
2316	TGGTCGATCACCTGTGACAGACGC	GCGTCTGTCACAGGTGATCGACCA
2317	TGGGGGTAGTCCATGCATCAATTG	CAATTGATGCATGGACTACCCCCA
2318	CCCTGCCAGGATTACTATTCCGGA	TCCGGAATAGTAATCCTGGCAGGG
2319	TCCCGCACGGGAATTAAAGTAGA	TCTACTAAATTCCCCGTGCGGG
2320	GTGATGTGCAGGAACCTCTGTCGC	GCGACAGAACGTTCTGCACATCAC
2321	ATTAGGCATGCATGCGCTTCTCA	TGAGAAGCGCATGCATGCCTAAAT
2322	TTCGGCGCTAGTGGACGCCGTCAA	TTGACGGCGTCCACTAGCGCCGAA
2323	GAGCTTCATCTCATCAGTCCCGCG	CGCGGAACTGATGAGATGAAGCTC
2324	GACAACTCCACTGCTCCAATCGCA	TGCGATTGGAGCAGTGGAGTTGTC
2325	GGCCAAGGATGGACCTTACGATGG	CCATCGTAAGGTCCATCCTGGCC
2326	GGTCCGGAATTGTCACCGCTTC	GAAGCGGTGACAAATTCCGGAAC
2327	GCGCTGGATAGTCTCGGAGAACCC	GGCTTCTCGCAGACTATCCAGCGC
2328	TGAGTCCAGTGTGCCACCATGAA	TTCATGGTGGCAGCACTGGACTCA
2329	TTGAATTGGGTGTGGAGCGTTCT	AGAACGCTCCGACACCCAATTCAA
2330	CGGCGGGCAGACAATGCTTGAAC	GTTCAAAGCATTGTCTGCCCGCCG
2331	GGGTCTGTCAAAGAGGGTGTCTGG	CCAGACACCCCTTTGACAGACCC
2332	CTTGATGCAAGACGAAGCACCCCT	AAGGGTGCTTGTCTGCACAAAG
2333	ATCGAATTCCGAGGAGGTCTCCAT	ATGGAGACCTCCTCGGAATTGAT
2334	TCCGACCCCTCAGAGTCGACTCATT	AATGAGTCGACTCTGAGGGTCGGA
2335	ATCAACGGCCACCTCCTCGCCGAG	CTCGCGAGGAGGTGGCCGTTGAT

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2336	AGCCACGGAATAATTCCGTCCACC	GGTGGACGGAATTATTCCGTGGCT
2337	GATCGCTTGCATCGCAAAGACT	AGTCTTGCATCGCAAAGCGATC
2338	TCCACGCCTTACCATCAACTGCAA	TTGCAGTTGATGGTAAGGCGTGG
2339	GCCAAGCGATAGGCCAGAACTCAG	CTGAGTTCTGGCCTATCGCTTGGC
2340	AGCGTGTGGGTCAATTAGCACGA	TCGTGCTAAAATGACCCACACGCT
2341	GTTATGCAGGGCTTACGAGTTGA	TCGAACTCGTAAGCCGCGCATAAC
2342	TCTGTCCACGTAACCTGCCTGCAG	CTGCAGGCAAGTTACGTGGACAGA
2343	TCGGCAGCCAATGATCATACCTCT	AGAGGTATGATCATTGGCTGCCGA
2344	TAAGCCCAGATCCGGTCTGTGTTT	AAACACAGGACCGGATCGGGCTTA
2345	ACATGGCAGACTAACAGGCCTCGC	GCGAGGCCTGTTAGTCTGCCATGT
2346	CATGGCTGCACTCTAACGTCGAACG	CGTTCGACTTAGAGTGCAGCCATG
2347	TCTTCAACCCACGCGGAACGATTG	CAATCGTCCCGTGGGTTGAAGA
2348	CTCGTGTCTCCAGAGGATTGCCC	GGGACAATCCTCTGGAGACACGAG
2349	TGAAGGCATCAACCCAGAGGATT	AAATCCTCTGGGTTGATGCCCTCA
2350	ACAGCTCGAAGGCAGGCCACATTG	CCAATGTGGCTGCCCTCGAGCTGT
2351	ACAACGAGTACCGCGACAGAAGGG	CCCTTCTGTCGCGGTACTCGTTGT
2352	ATAACCGAAAAACCAGCCTGCGAT	ATCGCAGGCTGGTTTCGGTTAT
2353	ACAACTCAGCACTTCGACGTCCA	TGGACGTCGAAAGTGTGAGTTGT
2354	CGGGTTACTGGGTATCACCAATGC	GCATTGGTATACCCAGTAACCCG
2355	CATCGGTTATCGCTGCACGCGCGT	ACGCGCGTGCAGCGATAACCGATG
2356	GAAGGAATCCCGGATAGTCCGTGG	CCACGGACTATCCGGGATTCCCTTC
2357	GCATGGTCTCAGCCAAAGAACCTG	CAGGTTCTTGGCTGAGACCATGC
2358	AGCCTGCGACGTTCCCGACAGAC	GTCTGTCGGGAAACGTCGCAGGCT
2359	AAGAAAGGCGCACGGGATCGATAT	ATATCGATCCCGTGCGCCCTTCTT
2360	TGTCGCGAAGCCAACTTCAAGTAA	TTACTGAAAGTTGGCTTCGCGACA
2361	GCGGCATGCAAGGTAGGTCTGGAT	ATCCAGACCTACCTGCATGCCGC
2362	GGTGGCCATCTCCTCGAATTGCAT	ATGCAATTGAGGAGATGGCCACC
2363	GCGTCATAAGTTGCACATTGTGC	GCACAATGTGCAACTTATGCACGC
2364	TTGAGGTAGCGTTTCGCGCATAT	ATATGCGCGAAAACGCTACCTCAA
2365	ATCCCACTTGTGAGAGGGCGCATT	AATGCGCCCTCTCACAAAGTGGGAT
2366	CGGTCAAGCGAGCAGACATCAACCT	AGGTTGATGTCGCTCGCTGACCG
2367	GCGTATCTCGGGTCGAACACTTG	CAAGTGTGACCCGAAGATAACGC
2368	ATGCCATTGAACTCGCACTTGCG	CGCAAAGTGCAGTTCAATGGCAT
2369	CGATTCCCACATCATAATGTGGTCC	GGACCCACATTATGATGGGAATCG
2370	CAATTGGATAATCCAGCCACGCC	GGCGTGGCTGGATTATCCAAATTG
2371	CGGCTTACCCATGATTCCGTGCA	TGCACGGAATCATAGGGTAAGCCG
2372	GGTGGACCATGCGCTGTGGTATGA	TCATACCACAGCGCATGGTCCACC
2373	TATTGTCGAAGATCGCAAGCGCC	GGCGCTTGCATCTCGACAAATA

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2374	GTCAGTGGGTTTGAGAGCCGCA	TGCGGGCTCTCAAAACCCACTGAC
2375	AGGGGGTCGGAAATCTGACAAAA	TTTGTCAAGATTCCCGACCCCT
2376	TGCTTGCTATCCGAAAAAAGCAGG	CCTGCTTTTCGGATAGCAAGCA
2377	TTATCGGATCAAATTGGCTCGG	CCGAAGCCGAATTGATCCGATAA
2378	TGCAGCAACGAGTTACCGGACTT	AAGTCCGGTAACTCGTTGCTGCA
2379	TATACATGTCCGGAGGGCACCCA	TGGGTGCCCTCCGGACATGTATA
2380	TGCAAAACCGGAGGATGAACCCCT	AAGGTTCATCCTCCGGTTTGCA
2381	TCGGTCTAATGTCCACGCAGACAC	GTGTCTGCGTGGACATTAGACCGA
2382	ATGTGTTGCCACGCGCTCCTATT	AATAGGAGCGCGTGGCAAACACAT
2383	TGGCGAGGCACGGCTTAATTGG	CCGAATTAGAGCCGTGCCTGCCA
2384	GCGACGACCCGAGCGACTTTACA	TGTAAAAGTCGCTCGGGTCGTGC
2385	CTCAGAGAGTCTATCCGGGCCCT	AGGGCGCCGGATAGACTCTTGAG
2386	GGAACATTCCTGGTCCCTCAGA	TCTGAGGGACCCAGGAGATGTTCC
2387	GCAACGCAGGGAAAGTACTAGCGA	TCGCTAAGTACTCCCTGCGTTGC
2388	TGACTTGGCGGACAAAGAACGC	GCGTTCTTGTCCGCCAAGTCA
2389	AGATCATCGGGACGCTTATGCTA	TAGCATGAAGCGTCCCAGTATCT
2390	CCCTTCTGACCGCTAAGGCCATAA	TTATGGCCTTAGCGGTAGAAGGG
2391	CGTGAGCCGTGGGGTGTCTGT	TACAGAGACACCCCCACGGCTACG
2392	TACCTTGGTCGTCTCGCTTTGT	ACAAAAGCGGAGACGACCAAGGTA
2393	TCGCGCAGAAATGCTACGTAAAA	TTTTCACGTAGCATTTCGCGCGA
2394	GAGTGACCTAATGGCTGCCGACT	AGTCGGGCAGCCATTAGGTCACTC
2395	AAAGGAACCTGGCCAACCCATGG	CCATAGGGTTGGCCAAGTTCTTT
2396	TGTTTTCGCACTCCACCTAATCGC	GCGATTAGGTGGAGTGCAGAAACA
2397	CAATGGTTCTATAAGGGCAGGCA	TGCCTGCCCTATGAAACCCATTG
2398	GCCTAACACACAAGGGTCCCTCTG	CAGAGGGACCCATTGTGTAGGC
2399	CGTCATGCGGTCCGAGGATCGATC	GATCGATCCTCGGACCGCATGACG
2400	CCACACGGGCACGGAGTAATATCT	AGATATTACTCCGTGCCCGTGTGG
2401	CATCAGACATAGGTGCGTGCAG	TCGGCACGCGACCTATGTCTGATG
2402	AGATGAAACCAAGGGAGGACGCAG	CTGCGTCCTCCCTGGTTCATCT
2403	GGCTACCCATAGGCTCAGCAC	GTGCTGCTGAGCCTATGGTAGCC
2404	GGCTTGTGAGGGTGTGTTCTCGAC	GTCGAGAACACACCCCTACAAGCC
2405	TGTGTTACGGCGAATGCAACAGTC	GAATGTTGCATTGCCGTAAACACA
2406	CGATAACAGGTGCGCCGTTACTA	TAGTAACGGCGCGACCTGTTATCG
2407	TGATAAAAGTGAGGCTCCAGCGCA	TCGCGCTGGAGCCTCACTTTATCA
2408	AATTGTGACGGATCTGCACGGCG	CGCCGTGCAGATCCGTGCACAATT
2410	GCAATGTACTGTCACCAAGTGGCGA	TCGCCACTGGTGACAGTACATTGC
2411	GGCATATCGGTAACACTGGTCGG	CCGACCAAGTGTACCGATATGCC
2412	GGGTCTAAACCAGCGTGGCCGCT	AGCGGCCACGCTGGTTGAGACCC

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2413	GTCTCCGGGACCATTGAGCTGGAG	CTCCAGCTCAATGGTCCGGAGAC
2414	GGCCTTCGGCATTCAAGACGGGTTG	CAACCCGTCTGAATGCCGAAGGCC
2415	CGTGATAGGCCACAGCGCTCAATT	AATTGAGCGCTGTGGCCTATCACG
2416	GGCAGGCCCGCGAGGGATGATTAAC	GTAAATCATCCTCGCGGGCTGCG
2417	CGGGTATGGTTGATAACAGCGTGG	CCACGCTGTTATCAACCATAACCG
2418	ACGACGTCCCTGGGACCGTATTGT	ACAATACGGTCCCAAGGACGTCGT
2419	CTGATATCGAGCCTGAGCCTTCG	CGAAAGGCTCAGGCTCGATATCAG
2420	TCCCATTGGCCTGTATGCTGGCCT	AGGCCAGCATACAGGCCAATGGGA
2421	GTGTCGTGATTGTTCATCGACG	CGTCGATGAAACAATCGACGACAC
2422	CGAAAGCCAGTAGCCGATTGCGTG	CACGCAATCGGCTACTGGCTTCG
2423	GGTCGGCTTATTCCACTGCGACA	TGTCGAGTGGAATAAGCCGAACC
2424	AGCGAGGGCTAACTTTAACGCG	CGCGTTAAAAGTTAGCCCTCGCT
2425	CGCGCCTGATGACGGGACTCGATT	AATCGAGTCCCCTCATCAGCGCCG
2426	TCACAGTGCTGGCGTAAGGACTA	TAGTCCTTACGCCGAGCACTGTGA
2427	CCCATTACGAGCACACACCATGGC	GCCATGGTGTGCTCGTAATGGG
2428	GGCCGCTAATCTTACGCATCACG	CGTGATGCGTAAAGATTAGCGGCC
2429	ACGGCTTCCTAGTGTCCAGCCCT	AAGGGCTGGACACTAGGAAGCCGT
2430	CTGTCAGGTCTACCCATGGCTC	GAGCCATTGGTAGGACCTGACAG
2431	CACAGCCCATCCACTGAAGTCT	AGCAGTTAGTGGATGGCTGTG
2432	ACAAACGATACACGCAACGCTGTG	CACAGCGTTGCGTGTATCGTTGT
2433	TGGCGGCCAGCTAGCAGGCGAAGT	ACTTCGCCTGCTAGCTGGCCGCCA
2434	ATCTCGAAACGATGCGTGCCTAA	TTTAGGCACGCATCGTTCGAGAT
2435	ATCTCGAGAACAGCGTGCCTCGG	CCGCACGCACGCTGTTCTCGAGAT
2436	GAAGAAATCCGCCGACATCTACGG	CCGTAGATGTCGGCGGATTCCTC
2437	GCGGAGCAACCTGGCTGTTCTA	TAGAACAGCCAAGGTTGCTCCGC
2438	CGCGTTCCGAAGACTTGTGTTTG	CAAACAACAAGTCTCGGAACGCG
2439	TGACCTGAAGCCCATTCCATAAGCA	TGCTTATGGATGGCTTCAGGTCA
2440	TGGTATTCCGAGATAAGCGGG	CCCGCTTATCCGGAATGAATACCA
2441	GCGTTGCGGGTCATTGATGCAAAC	GTTCGCATCAATGACCCGCAACGC
2442	ACCGCTTCTGTAGAGCCCTGA	TCAGGGCTCTACACAGAAAGCGGT
2443	CAAATAGACAATCGCAGCTCGGG	CCCGAAGCTGCGATTGTCTATTG
2444	TGTCCTGACAAATCAAGGTGCAGG	CCTGCACCTTGATTGTCAAGGACA
2445	AAATTGCACTCGCGGAGATTCCT	AGGAAATCTCCGCGAGTGCAATT
2446	TGACGCCATTCTATATGGTGCA	TGCACCATATAGAAATGGCGTCA
2447	TGTTCCGACAGGGCACTGCTAGAC	GTCTAGCAGTGCCTGTCGGAACA
2448	TCGCTGGCTTGGGAAGGCCTCGT	ACGAAGGCCTTCCCAAGCCAGCGA
2449	GTGCACCTCCGTTGGCGTAGAATG	CATTCTACGCCAACGGAGGTGCAC
2450	CTCATTGGGACCGATGGGTTGC	GCAACCCGATCGGTCCCAAATGAG

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2451	GCCAGTGTCTGTCAATGGATGGGA	TCCCATCCATTGACAGACACTGGC
2452	TTGCCCGGCAGGTTCTGTATAATG	CATTACACAGAACCTGCCGGGCAA
2453	ACCCGCGAACCGAGACGCACTTCT	AGAAGTGCCTCGGTTGCAGGGT
2454	TCCGTGCGATTGGTCAAGGTTGAT	ATCAACCTGACCAATCGCACGGA
2455	AGGGCGTCTCGGTTAACCTCGGT	ACCGAGGTTCAACCGAGACGCCCT
2456	TGACCGTTCAAAGAGCAAGCCAAC	GTTGGCTTGCTCTTGAACGGTCA
2457	ACACTCACCTGCTGCCCTGCTGA	TCAGCAGGGACAGCAGGTGAGTGT
2458	GCGTTAACTCCTGGGTGGTGGT	ACCACCAACCAAGGAGTTAACGC
2459	CGCCTGCGCAGGTAACCTCCGCA	TGCGGAGAGTTACCTGCGCAGGCG
2460	AATCGAATTCCCAGCGGCTGTTT	AAACAGCCGCTGGAAATTGATT
2461	AAGCAGGTGGGATCCTGGGATCA	TGATCCCCAGGATCCCACCTGCTT
2462	AATCCCAGACTCGCTTCTGCT	AGCACGAAGAGCGAGTCTGGGATT
2463	ACGGTTATAAGGGCCGGCTGCGAC	GTCGCAGCCGGCCCTATAACCGT
2464	TACGAGAGCGGGCTAGACGTCGC	GCGACGTCTAACCGCCGCTCGTA
2465	GCGATTITGACCCACGGTTATCGA	TCGATAACCGTGGGTCAAAATCGC
2466	AGCTGTATAATTGGATGGCGCGA	TCGCGCCATCCAAATTATACAGCT
2467	TCCCGCAGGTCTAGCCGATTGAAC	GTTCAATCGGCTAACAGACTCGCGA
2468	GGCATCAGCTCCGTAAGCCGATAG	CTATCGGTTACGGAGCTGATGCC
2469	TGTTATTGGCAGTTCGAGCGACAG	CTGTCGCTCGAACTGCCAATAACA
2470	GCGAGCCTTTGCTTGGGAGAG	CTCTTCCCAGCAAAAGGCTCGC
2471	AGAAGAAAAGGTAGCGTCGACGA	TCGTCGACGCTGACCTTTCTTCT
2472	CGGGTCGACCCCTGAAGCATAACC	GGTTATGCTTCAAGGGTCGACCCG
2473	CTCGGTTTCACAAACTTACCGCG	CGCGGTAAGTTGTGAAAACCGAG
2474	GCAGTCCTATCCGGAGCCTGACAA	TTGTCAGGCTCCGGATAGGACTGC
2475	AAGGTGCGCTATTGTTGTCGGTC	GACCGACAACAAATAGCGCACCTT
2476	AGTGAATCCATGCCGACACCTGA	TCAGGTGTCGGCATGGATTCCACT
2477	TACAGGCGTAATTCCCTGCGAGGGA	TCCCTCGCAGGAATTACGCCCTGTA
2478	CCGAAGTGCAGAGAACACGTTGTT	AACAAACGTGCTTCTGCACTTCGG
2479	AAGGACTGGTATGCCGGAGCTTT	AAAGCTCCGGCCATACCAGTCCTT
2480	GGACACCGCCAACCTCATAGTTGC	GCAACTATGAGGTTGGCGGTGTCC
2481	AATGGTGTTCGCCCTGGACTACCAC	GTGGTAGTCCAGGCGAACACCATT
2482	TAGGAAAGCGTACACGGGAATCCG	CGGATTCCCGTGTACGCCCTTCTA
2483	TCTCACCCCAATGATGAGGACGTC	GACGTCCTCATCATTGGGTGAGA
2484	CGTGTCCGTGTGACACTGTCCATG	CATGGACAGTGTACACGGACACG
2485	TCCAGGCTTGGCGGATACGGTAG	CTACCGTATCCGCAACAGCCTGGA
2486	GTAGGCAAAATGGTCGCGATCAAT	ATTGATCGCGACCATTTCGCTAC
2487	ATCTCCGTGGACCCGATTGTGACA	TGTCACAATCGGGTCCACGGAGAT
2488	GAATATGCCGTCAACGCTATGGC	GCCCCATAGCGTTGACGGCATATT

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2489	TTCCGGAAAGCGTTGGTAACTTG	CAAAGTTACCAACGCTCCGGAA
2490	TTCGATAGGAATACCAAGGGCCTGG	CCAGGCCCTGGTATCCTATCGAA
2491	GGCCATTTGAGGAGGGATTATGCAA	TTGCATAATCCTCCTCAAATGGCC
2492	ACCTCTGACCTGGACTTTGGCG	CGCCAAAAGTCCAGGTAGAAGGT
2493	GACCAATCCGAGTTGAGAACAG	CTGTTGCTCAACTGCGGATTGGTC
2494	TCGGCCACTCACCATGAGTGTAGG	CCTACACTCATGGTGAGTGGCCGA
2495	AGCGCTCACATGTTGAAAACGGG	CCCGTTTCGAACATGTGAGCGCT
2496	TAACGCAAAGGCGCGATCCTCGCT	AGCGAGGATCGCGCCTTGCCTTA
2497	TGGGTGGGCCAAATATTACTGCAA	TTGCAGTAATATTGGCCCAACCCA
2498	GTCCTCGAAAGGGGCATCCAAACA	TGTTTGGATGCCCTTCGAGGAC
2499	CCCATCTGGTGGGAGGCCTTATCA	TGATAACGCCTCCCACCAGATGGG
2500	GTGCGCGGTCTGCAAACCTGCCAT	ATGGCGAGTTGCAGACCGCGCAC
2501	TGTGTTGCCAACCCCTAGGTATCA	TGATGACCTAGGGTTGGCAACACA
2502	CTGATGCTGTTCTCGTCGGTTGAC	GTCAACCGACGAGAACAGCATCAG
2503	AAGCTGAAAAGGTGAGCGTGGCA	TGCCACGCTCACCTTGCAGCTT
2504	TCTGACCGTGCTTGGAGTCTAT	ATAGACTCCCAGCACCGTCAGA
2505	GAATTACTGGAGGGCGCCGTGCAA	TTGCACGGCGCCCTCAAGTAATT
2506	GATTCTTCCCACCTAGGTTGGCC	GGCCAACCTAGGTGGAAAGAACAT
2507	CGCAGCGTATCCCATGTTGCTGA	TCAAGCAACATGGGATACGCTGCG
2508	GAGATGGAATTGTTCGCCCAAAGA	TCTTGGCGAACAAATTCCATCTC
2509	GATGCCTGGATCGGTCTAGCGTCA	TGACGCTAGACCGATCCAGGCATC
2510	GCAGCGACTGCTAACGCTATCTCGG	CCGAGATAGCTTAGCAGTCGCTGC
2511	AGGGCTAATTACATGCCCTTGCC	GGCAAGGCGATGTAAATTAGCCCT
2512	AAGTGCACATCCTACGAAGCGAT	ATCGCTCGTGAGGATGTGCACCT
2513	TCAGGCAGCCGTAATTAAATGCGC	GCGCATTTAATTACGGCTGCCTGA
2514	CCACTGGGAAATCGCACTGTTGG	CCAACAGTGCATTTCCCCAGTGG
2515	TTGTCCAAGCCACCTACGACAGA	TCTGCGTAGGTGGCTTGGACAA
2516	TGGCGGAATAGATTGGGTGTCTT	AAGACACCCAATCTATTCCGCCA
2517	TAGAATTGCCCTTCTAGCGGCC	GGCGGCTAGAAGAGGGCGAATTCTA
2518	CATTACTCCTGCAGATGCGATGC	GCATCGCATCTGCAGGAAGTAATG
2519	GGAAATGCTAGCTGGGTAATCGC	GCGATTACCCAGCTAGCATTCC
2520	GCCGCCACTTGCAGAACATCACATCT	AGATGTAGATTGCAAGTGGCGGC
2521	ACAATAGCGGACAGCTGCCAGAT	ATCTGGCGAGCTGTCCTATTGT
2522	AGTTAGGCTCTCGGTGCGGTCCAT	ATGGACCGCACCGAGAGCCTAACT
2523	TGGGCCTGAGAAGCGGTTAATAGG	CCTATTAACCGCTTCTCAGGCCCA
2524	ACGCTCTGAGCGACGCCATCGTA	TACGATAGGCGTCGCTCAGAGCGT
2525	CCTGGTGATCGTGTCCCAGACTCA	TGAGTCTGGACACGATCACCAGG
2526	GCGTGTCCATTGCCCTTGAGGTTTC	GAAACCTCAAGCGAATGGACACGC

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2527	ATCCTGAACGGCGATGACCAC	GTGGTGGTCATGCCGTTAGGAT
2528	TTACGTTCTCACCGATCAACGCC	GGCGTTGATCGGTGAGAAAACGTAACG
2529	GCCGTCTTGAGTGGCTAAAAGGCA	TGCCTTTAGCCACTCAAGACGGC
2530	ATCTACGATGCGGCTCGAAGTGTT	AACACTTCGAGCCGCATCGTAGAT
2531	AACCAAGACTCGTCCCCAAACGAA	TTCGTTGGGGACGAGTCTGGTT
2532	AACTGCGGTGGTGGAGGCAGGTGC	GCACCTGCCTCCACCACCGCAGTT
2534	TGCGATCTCTCCACCTACAGCGC	GCGCTGTAGGTGGAGAAGATCGCA
2535	AGGCGCTTAGAACCGTGAAGGCAG	CTGCCTTCACGGTTCTAAGCGCCT
2536	TGGAAAATTTGGGAAACGCTGGA	TCCAGCGTTCCCAAAATTTCCA
2537	CCAGCGCCGCACCTCTCCAATAG	CTATTGGAGAAGGTGCGGCGCTGG
2538	TAGACGGCTGGCGAACATTACGGT	ACCGTAAGATTGCCAGCCGTCTA
2539	TACCATACAAGAGAACGAGCCGCA	TGCGGCTCGTTCTTGTATGGTA
2540	GTAGCCGAGAGCAATTTCACCAC	GCGGTGAAAATTGCTCTCGGCTAC
2541	GCAAACCTCCCCTGCCCTTAGCCT	AGGCTAAAGGGCAGGGAGTTGC
2542	ATCCCGCTGATAACCGCCAGGATA	TATCCTGGCGGTTATCAGCGGGAT
2543	AGTCTCAGTCGGCGAACGGTAG	CTACCGTTGCCCGAACGTGAGACT
2544	AACCTACAGTCGCCGCAATGCATT	AATGCATTGCCGGCAGTGTAGGTT
2545	ATACACGTTCAGCCGGCAACAAT	ATTGTTGCCGGCTGAAACGTGTAT
2546	ACGACGGGACGTGCCCTCGTTGAT	ATCAACGAGGGCACGTCCCGTCGT
2547	AAGTCCAACACTGAATGGGGCAGT	ACTGCCCATTCGAGTTGGACTT
2548	GATTATTGGCGCGGTAAACGACCT	AGGTCGTTACCGCGCCAATAATC
2549	TGTTTCAGAGGCTACCCCTGCCAT	ATGGCAGGGTAGCCTCTGAAAACA
2550	ACGGTCTCAGGGAAATGCGATCTC	GAGATCGCATTCCCTGAGACCGT
2551	GACTTGAAACCGCCTATGCCACA	TGTGGCATAGGCCGGTTCAAGTC
2552	CGATCGGTTGTGTGCTGTCTTACC	GGTAAGACAGCACACAACCGATCG
2553	AGTAGCACAATGCCCTATCCCGC	GCGGAAATGAGGCATTGTGCTACT
2554	CTCGCTATCTACCGGTCTCCGAA	TTTCGGAGACCGTAGATAGCGAG
2555	AGCCCCTTACGGCATCTAGGATTC	GAATCCTAGATGCCGTAACGGGCT
2556	TCGCGATGGCGAGAGTTCAGAATA	TATTCTGAACCTCGCCATCGCGA
2557	TTACAGGATTCCAAAACCCGCAA	TTTGCAGGGTTTGGAAATCCTGTAA
2558	CGGTACCAACGCGCGGGCATATGA	TCATATGCCCGCGCGTTGGTACCG
2559	TGCCAGTATTATCCGTGCCAGCCG	CGGCTGGCACGGATAATACTGGCA
2560	ATTCAGACCTCGGGACAACCTGG	CCAGGTTGTCCCAGGGCTGAAAT
2561	GAAGTGCACGTAACCTAGGGAGCC	GGCTCCCTAAGTTACGCGCACTTC
2562	TTGGCCAGGTACACTCTGCCAT	ATGGCAGAGTGTGACCTGGCAA
2563	ATCGGCCGGTATTAGCTGCCCTCC	GGAGGGCAGCTAATACCGGCCGAT
2564	CGCAGGTAAGGCCGAGCAATGTTT	AAACATTGCTGGCCTTACCTGCG
2565	TTGGGAACGTGCTAGGCCCTC	GAGGGCCGCCTAGCACGTTCCAA

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2567	CATCTCGGCACACTGGTGCTGTAT	ATACAGCACCAGTGTGCCGAGATG
2568	ACCGTAAATCAACGACGTGGTCG	CGACCACGTCGTTGATTACGCGT
2569	CGTAGGTGGTAAATGTTGGCCCAG	CTGGGCCAACATTACCACTACG
2571	TTCGAGCCAGAATAAAACGGTTGG	CCAACCGTTTATTCTGGCTCGAA
2572	AGAGATATTGGCCTCGGTGAGA	TCTCGACCGAGGCCGAATATCTCT
2573	CGACAAAGTTCTCGCGAGCACT	AGTTGCTCGCAGAAACTTGTGCG
2574	ATTGCCCGCTCTCGTATCAAAAGA	TCTTTGATACGAGACGCGGCAAT
2575	CGGAGAATGGATGCAGGTTCTCG	CGAAGAACCTGCATCCATTCTCCG
2576	TATAATCATTGCGACTCGCCCCA	TGGGGCGAGTCGCAAATGATTATA
2577	AATTTCCCCGATTTGAAGAAGCG	CGCTTCTCAAATCGGGAAAATT
2578	TCGCATACTCGTCGGCGAGTATT	AATACTCGCCGACGAAGTATGCGA
2579	CGTGAGCCGTTCTCATCCAAGCGG	CCGCTTGGATGAGAACGGCTCACG
2580	GCAGAATCGAATTGGGGTGGGTTT	AAACCCACCCCAATTGATTCTGC
2581	CTCTCGGTTCTAACCGAGCTCG	CGAGCTCGGTTGAGAAACCGAGAG
2582	GACCAGTTAGTGCATGGTGGCG	CGCCAACCATTGCACTAACTGGTC
2583	TTCTCGCACAGCTAGTCAGCCGAT	ATCGGCTGACTAGCTGTGCGAGAA
2584	CCAAGTCTTGCCTGAGCGATCCTG	CAGGATCGCTCACGCAAGACTTGG
2585	GCGAAAGTGGCTCGTATTCCTCCA	TGGAGAAAATACGAGCCACTTCGC
2586	CCTCGGGACTGTCCGACTGAAAAAA	TTTTTCAGTCGGACAGTCCCGAGG
2587	AGGCGAGTGTACGGCTCATCCATG	CATGGATGAGCCGTACACTCGCCT
2588	GCGGCTCTGCCTACGATATTACA	TGTGAATATCGTAGGCAGAGCCGC
2589	TGCACCTGCTGTAGATTGCGGT	ACCGCAAATCTACAGACAGGTGCA
2590	CATAAAGCACGGACCGACTTGAT	ATCAAGTCGCGTCCGTGCTTATG
2591	CCCTCAACGTAGGGCGTACTTTC	GAAAGTCACGCCCTACGTTGAGGG
2592	GGGTCATCGTGCAGTTATGCCGTA	TACGGCATAACTGCACGATGACCC
2593	CCCGGATAATCCTTGTCCAGCCG	CGGCTGGACAAAGGATTATCCGGG
2594	TCCGATAAGCGAACTCACATGGT	ACCCATGTGAGTTCGCTTATCGGA
2595	CCTGCTGGTTCGGTGTAAGCGAA	TCGCTTACGACCGAACCGAGCAGG
2596	GAGGCACCAATCGGTCTGAAAATG	CATTTTCAGACCGATTGGTGCCTC
2597	TACGAAAATGGTTGCGCCGGTCT	AGACCCGGCGCAACCATTTCGTA
2599	AATTGCCGGAAGCAGTCAGAATCG	CGATTCTGACTGCTTCCGGCAATT
2600	CCGAATCAGCCGTATTGCTGGAA	TTCCAGCAAATACGGCTGATTCGG
2601	CCCGCTTATCTGTACTCGATCGCA	TGCGATCGAGTACAGATAAGCGGG
2602	TTTGGGGATCCCTATTAGGCGCA	TGCGCCTAATAGGGATCCCCAAAA
2603	AGTGACAGCGCTCACACGGTCCC	GGGACCGTGGTGAGCGCTGTCACT
2604	CCATGAGTGTTCGGACATCGTA	TACGATGTCCCGAAACACTCATGG
2605	GCCACATTCTGCTACCTCCGTGTT	AACACGGAGGTAGCAGAATGTGGC
2606	TCCTGTGCTTGTGACGTGCTAGG	CCTAGCACGTACAAAGCACAGGA

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2607	GACCGCATATACACCTGATGGCC	GGCCCATCAGGTGTATATGCGGTC
2608	GTAGGCCCGTCGTTAACCATCTCA	TGAGATGGTTAACGACGGGCCTAC
2609	CGGCTCGCGAAATGGAGTTAGCG	CGCTAAACTCCATTTCGCGAGCCG
2610	GCTGATCGGCTTTACCGCTATA	TATAGCGGTAAAAGCCGATCAGC
2611	TATCAAATCGTGGCACCGCACTA	TAGTCGCGTGCAACGATTGATA
2612	TTGGCGAGGATCCCTAGCGTACT	AGTACGCCTAGGGATCCTCGCCAA
2613	AAGTCCTGAGGCCGTCGGTTCT	AGAAACCGAACGGCCTCAGGACTT
2614	ACTCCGGACATCTCGGCCAGAGAT	ATCTCTGGCCGAGATGTCCGGAGT
2615	CCAAGGGGAACACAGGATCGTAGA	TCTACGATCCTGTGTTCCCTTGG
2616	GTGGCCTAAATCCGCCCTCTAAC	GTTGAGAAGGCCGATTAGGCCAC
2617	CACTCCGTCTCGTCCATTATGCG	CGCATTAAATGGACGAGACGGAGTG
2618	TCAAGAACCCAGTGCCGGTCAGCA	TGCTGACCGGCACTGGGTTCTGA
2619	GAATCAATTTCAGGGACGGGAC	GTCCCGTCCCTGGAAAATTGATT
2621	ATCGGTGTGCTGGAGCGCCAGAGT	ACTCTGGCGCTCCAGCACACCGAT
2622	GCCTCTCCTATGACGATGACCCAC	GTGGGTCATCGTCATAGGAGAGGC
2623	TGGGCGCGCTTTAAGACTACATC	GATGTAGTCTTAAAAGCGCGCCCA
2624	CGTTGGGTACCGTTCTATCAACCG	CGGTTGATAGAACCGTACCCAACG
2625	GCAGTGAGCTGGGTTCAATGCTTC	GAAGCATTGAACCCAGCTCACTGC
2626	CATCATCCACACAGGCAGGTGT	ACACACCTGCCTGTGGATGATG
2627	AGACAAAGGTCCCCATTGCGAAAT	ATTCGCAATGGGGACCTTTGTCT
2628	ATACTCGTCGACGAGAACGGAAA	TTTCCGCTCTCGTCGACGAGTAT
2629	GCAGAATGTGTTGCTTCGCAGCC	GGCTGCGAACACAACATTCTGC
2630	CACCATGCCTCATCTGGCCTAG	CTAGGCCAAGATGAAGGCATGGTG
2631	ACTCTTCAACGCCAGGTTAACCCA	TGGCTTAACCTGGCGTTGAAGAGT
2632	GCGACCTGCGCGTGTATTCTC	GAGAATACACACGCCGCAGGTCGC
2633	TCGGTGTATGCACCCCTTCTCCAT	ATGGAGAAAGGGTGCATACACCGA
2634	ACCGTCGAATCTTGGGCCAATGT	ACATTGGCCGCAAGATTGACGGT
2635	TAATGCATGCTCCCGGCTACGTT	AACGTGAGCCCCGAGCATGCATTA
2636	TCTGTACACACCACGTCGTGCACA	TGTGCACGACGTGGTGTACAGA
2637	CATGGGGTTGTCAGACGACACCTA	TAGGTGTCGTCGACAACCCATG
2638	AATCTGATGCTCGCTGTAGGACGG	CCGTCCTACAGCGAGCATCAGATT
2639	TCGAAACCGCGGGAAAGGGAAAAA	TTTACCTTCCCGCGGTTCGA
2641	TGGGGGACGGCGTCAATCCTCC	GGAGGGATTAGACGCCCGTCCCCCA
2642	AGGCATGCACCCATGCTGCCAGAG	CTCTGGCAGCATGGGTGCATGCCT
2643	TCCCAATGGCCTGTCAAGCATAAA	TTTATGCTTGACAGGCCATTGGGA
2644	GAACCTGAGCCTTGCTAGCACGA	TCGTGCTAGCAAAGGCTCAGGTT
2645	CGAATTGATAGCGTTACGGCGAA	TTCGCCCGTAACGCTATCAATT
2646	TTGCACGCGCGCGAACGACTATT	GAATAGTCGTTCGCGCGCGTCAA

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2647	TGCGGTGAAGCAGTCCAAGGTCAG	CTGACCTTGGACTGCTTCACCGCA
2648	TGAGGACCATCCAATGGATCGGTT	AACCGATCCATTGGATGGTCCTCA
2649	TCGGTGATTGTAATTGGATCCG	CGGATCCAATTACCAATCACCGA
2650	GCAGGGCAGGTAGTTGACTGGATG	CATCCAGTCAAACCTACCTGCCCGC
2651	CAAGCACAAGCCCAGTAAATTCA	TGAAATTTCATGGGCTTGTGCTTG
2652	CGGTACAGCGGATAGCCAAGGATA	TATCCTTGGCTATCCGCTGTACCG
2653	CCATGCTCTCGCTGCAGCATACT	AGTATGCTGCAGCGAAGAGCATGG
2654	CGCGGCAAAGATTAATTCCCGCG	CGCCGGGAATTAATCTTGCCGCG
2655	GAAGACCCGTCCGGGTTCCATAC	GTATGGAAACCCGGACGGGTCTTC
2656	CTGGCAAGGAGGATGTGGCTCGTG	CACGAGCCACATCCTCCTGCCAG
2657	CTGTGCAGGGGGTGGCTCTGTTGA	TCAACAGAGCCACCCCCCTGCACAG
2658	TTCAATAATGATCACGAGGCCCA	TGGGGCCTCGTGTACATTATTGAA
2659	TGGTGATGCGAAGCCTTACCTTTG	CAAAGGTAAGGCTTCGATCACCA
2660	CTGCCACCACATCACGGCGAGTCT	AGACTGCGCCGTAGATGGTGGCAG
2661	TTTGCAGCTCTCGCAGAAGTTA	TAACCTCTGCGAGAGCTGGCAAA
2662	AATTCAAGACGCCACATCGACGGTC	GACCGTCGATGTGGCGTCTGAATT
2663	CCGTGGTCTGCCTCGATTACCTAC	GTAGGTAATCGAGGCAGACCACGG
2664	GGCGAGGAATTGGAAACCTTATG	CATAAGGTTCCGAAATTCTCGCC
2665	ATCCGATGATCAGATACCGGCTGG	CCAGCCGGTATCTGATCATCGGAT
2666	CCATAGACTAGCGCCAGAGTGC	GGGCACTCTGGCGCTAGTCTATGG
2667	TGTGGACCTAGAAAATTGCCAGCC	GGCTGGCAATTCTAGGTCCACA
2668	GAATAATCATCGCGGTCCATGG	CCATGAGGACCGCGATGATTATTC
2669	GGGATTGGCTTGGTTGAAAGAA	TTCTCCAACCAAGAGCCAATCCC
2670	ATTGTGCTTCCTCGAACACTGGAAA	TTTCCCAGTTCGAGGAAGCACAAT
2671	TGCCCCACCCCGTAAGTCAATAAT	ATTATTGACTTACGGGGTGGGGCA
2672	TCAGGACCGACGGTGCACCTAGTG	CACTAAGTGCACCGTCGGCCTGA
2673	CCAGCCGTACAGTGCACATTCCG	CGGAAATTGCACTGTGACGGCTGG
2674	CTTAAAGAGGCGCGAACACAACA	TGTTGTGCTCGCGCCTTTAAG
2675	TACCGCTCGCGCATACAATGA	TCATTGTGATCGCGACGAGCGGTA
2676	CCGAGTGCACAGTGTCTATGTG	CACATAGACACTCGCGCACTCGG
2677	GCACCAAGTGCACCGATCAAACGTA	TACGTTTGATCGGGCACTGGTGC
2678	TGCAGGCTTCTCAACGGCTGGAG	CTCCCGCCGTTGAGAAGCCTGCA
2679	CTCCGTACGTATCCCGGTGATAC	GTATCACGCGGGATACGTACGGAG
2680	GGAAAGTGCACCTAAAGCCCCGCC	GGCGGGGCTTAAGTGCACCTCC
2681	CGAACCGGCAGTCGATCGTGCAT	ATGCAACGATCGACTGCCGGTTCG
2682	CCGTTAGTGGTCGACAGTTCGGTT	AACCGAACTGTCGACCACTAACGG
2683	TCAGGCTACGCCCTCAGCACTACA	TGTAGTGTGAGGGCGTAGCCTGA
2684	TATACGGGCCGAGGTCCGTATTG	CGAATACGGACCTCGGCCGTATA

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2685	CCAAACGTGTGACGAAGGGCCATTG	CAATGGCCCTTCGTACACGTTGG
2686	CTGCTCAGCGGTGCTTGAAAGACA	TGTCTTCAGCACCCTGAGCAG
2687	GGAGATTGACTTCGCGTTCACCA	TGGTGAAACGCGAAGTCAATCTCC
2688	ATGGTTCAGAAGGTTCGTGGGTT	AACCCGACGAACCTCTGAACCAT
2689	GAGTGGAGCATTCTCGGCCCTCAA	TTGAGGGCCGAGAATGCTCCACTC
2690	TGGATTGGAACCAATCCCGCACAA	TTGTGCGGGATTGGTCCAATCCA
2691	TGCTCTTGTGGTCACTCGAGAGGA	TCCTCTCGAGTGACCACAAGAGCA
2692	TTGGGAGCACGGTTACCGCCTGTG	CACAGGCGGTAAACCGTGCTCCCAA
2693	CAACGCGAGCTAACGGTAGTTCG	CGAAACTACCGTTAGCTCGCGTTG
2694	AACGCTGAGCGCTCACCTCACCT	AGGTGAAGGTGAGCGCTCAGCGTT
2695	CCGTCGTAGATCTGGAGGCTCAA	TTGAAGCCTCCAGATCTACGACGG
2696	GGATGGCATGGGCACACTGTAACC	GGTTACAGTGTGCCCATGCCATCC
2697	TCGCTCGTAGATATCCTCACGCC	GGCGTGAAGGATATCTACGAGCGA
2698	GGAGCAATACCGCGTCCAAACAC	GTGTTTGGACCGCGTATTGCTCC
2700	TTGTTCAGACTTAGGCGCTGCCA	TGGGCAGCGCCTAAGTCTGAACAA
2701	CGGCGGTACTCTTCCACTGTCCT	AGGACAGTGGAAAGAGTACCGCCG
2702	AAGACGATTGCCAACGTGCCAGAG	CTCTGGCACGTGGCAATCGTCTT
2703	AGGTGAGCGCAGGCATATTGCAGT	ACTGCAATATGCCCTGCCTCACCT
2704	CTCGGGCCTGTACAGCAAAGCCGT	ACGGCTTGCTGTACAGGCCGAG
2705	TGCGCGCTAGTGCTGCCATGATC	GATCATAGGCAGCACTAGCGCGCA
2706	CCATCCTTGCCTTGAGGGTAAGG	CCTTACCTCAAGGCAAAGGATGG
2707	AACAACAGCGTAAGACGGACAGGG	CCCTGTCCGTCTACGCTGTTGTT
2708	GAGGCGGTCGAGGCTACAATATT	AATATTGTGAGCCTCGACCGCCTC
2709	CGAGGTTAGACGCCTATGACCCAC	GTGGGTATAGGCCTAACCCTCG
2710	AACTTGCTATACCGGGCGCAGCAA	TTGCTGCCTCGGTATAGCAAGTT
2711	CGCGGTGAATCGCATACACAGCGC	GCGCTGTATGCGATTACCGCG
2712	CACCGAATCAAGCCATATGGCTCT	AGAGCCATATGGCTTGATTGGTG
2713	TTCACAGCTATCCTAGGCGCTGCC	GGCAGCGCCTAGGATAGCTGTGAA
2714	AGAACGCGAAGTGTACCCCGCAT	ATGCGGGGTACACTTCGCGCTTCT
2715	TGCATGGTATTGCGTGCAGTAGG	CCTATCGCACGCAAATACCATGCA
2716	GGCCGGACCTATGTGAGATGGAAA	TTTCCATCTCACATAGGTCCGGCC
2717	TCAACCTGAGTCCTGATCCCAAGC	GCTTGGGATCAGGACTCAGGTTGA
2718	TGCTTACCGTTCAAGGGAGGGGTGT	ACACGCCCTCCCTGAACGGTAAGCA
2719	GGAGAGTTACGCGATGAGCCACCT	AGGTGGCTATCGCGTAACCTCC
2720	CGGTATGCGGTGTACAGCTTCGT	ACGAAAGCTGTACACCGCATAACCG
2721	GTAAGCCGGGTCTCGTGTGCCGT	ACGGCGACACGAGACCCGGCTTAC
2722	GCGTAGTGCAGCAGCCCCGACCTA	TAGGTGGGGCGTTCGCACTACGC
2723	TCCTCGCGGCTTACGTCAAATTG	CGAATTGACGTAAGCCCGAGGA

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2724	CGACGTTCAAAGCGGGAGAGGGAGG	CCTCCTCTCCCGCTTGAACGTCG
2725	CGAGGCACCCCGACATGTTGAGAT	ATCTCAACATGTCGGGGTGCCTCG
2726	CTATTCGTGCCGCGTCGGACAAG	CTTGTCCGACGCCGACGAAATAG
2727	GGCTGCTCAGTGACGTGTCAACTG	CAGTTGACACGTCACTGAGCAGCC
2728	ATCACTCGTGCACCGACCGTC	GACGGTCGGTACGCACGAGTGTAT
2729	CGAGATGTCCTATACCGTGGCGAA	TTCGCCACGGTATAGGACATCTCG
2730	TCACACCGAGCCCCATAAATGAAA	TTTCATTTATGGGGCTCGGTGTGA
2731	AGCTACGTGTCTCGAGCAAAGCG	CGCTTTGCTCGAGACACGTTAGCT
2732	TCAGGGCGAGTTTTTCAGCGCG	CGCCGCTGAAAAAAACTCGCCCTGA
2733	TCAGGGCGAGTTTTTCAGCGCG	CGGGGCAAAATAGACAGAACGAA
2734	TGGTATGCCAGGATCCAGCCTAC	GTAGGCTGGATCCTGGGCATACCA
2735	TCTCAGTCGTTAGGCCATGGCGG	CCGCCATTGGCCTAACGACTGAGA
2736	AAAGATCACCCTGGAGCGATCGGC	GCCGATCGCTCCACGGTGTACCTT
2737	TAGCAGGACTTGCACTCGTGATGC	GCATCACGAGTGCAAGTCCTGCTA
2738	TGCCCACGGTACCGTTCAAGGCTG	CAGCCTGAACGGTACCGTGGGCA
2739	TGAGGTGCGTCGCCCTAAGTAATG	CATTACTAGGGCGACGCACCTCA
2740	AGCAAGGGTTACAACCCGCAACCC	GGGTTGCGGGTTGTAACCCCTGCT
2741	CACAAACAGCCAGTATTGCCACAA	TTGTGGCGAATACTGGCTGTTGTG
2742	GGCAACACCCATACTCGACGAGCTC	GAGCTCGTCGAGTATGGTGTG
2743	GGCTGGATTGACAATTAGCCCCT	AGGGGCTAAATTGTCATCCAGCC
2744	CGTGAGAAATGCTACACCGCTCAG	CTGACCGCGTAGCATTCTCACG
2745	CGCATCTGCCCTATTGTTCTT	AAGGAACAAAATGGGCAGATGCG
2746	GTCGGCCTAGTCGGCAGAACGGTG	CACCGTTCTGCCGACTAGGCCGAC
2748	TCCCTCACCTCCAAAAATGTGCT	AGCACATTGGAAGGTGAGGGA
2749	GGGCAAGAACATGAGAACAGACCG	CGGCTGTTCTCATGTTCTGCC
2750	TCGTCCCTGGTACGACTTGCCTAGA	TCTACGCAAGTCGTACCAAGGACGA
2751	TGGCGGTTGCATGTGATGATCAAG	CTTGATCATCACATGCAACCGCCA
2752	CCTCGCGTGAGTAAAACCGTCCG	CGGACGGTTTACTCACGCGAGG
2753	ACTTCCGCCACAGAACGCGGCCAG	CTGGCCGCATTCTGTGGCGGAAGT
2754	GTGTAGAGCTGGTAGCCCCGTT	AACGGGGCTACCCAGCTACAC
2755	CGCAGCATCCGAGTTAACACACAT	ATGTGTGTTAACCGGATGCTGCG
2756	ATGAGCCTGGATGATCCGCTGGT	ACCAGCGGATCATCCCAGGCTCAT
2757	CCTGGCATAAGTGGCAGACATGCTT	AAGCATGTCGGCACTTATGCCAGG
2758	GCGCATAAAAACTACGACGGACG	CGTCCGTCGAGTTTACGCG
2759	AAAGATGGGTCGATGGGAGCGTCT	AGACGCTCCCATCGACCCATCTT
2760	ATCCTGGGCACGAGCGGATTATC	GATAAAATCCGCTCGTGGCCAGGAT
2761	TCACCGCATTGATAGTTACCGCA	TCGCGTAACATCAAATGCGGTGA
2762	TGGTGGAGCGGACTCTGGTGTAT	ATAACACCAGAGTCCGCTCCACCA

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2763	CACAATGAAAAAACAAATGGCCCCA	TGGGGCCATTGTTTTTCATTGTG
2764	CCTTGCCGCGCTTGTGGTACCAAC	GTTGGTACCACAAGCGCGGCAAGG
2765	CCGAGACCTTGCACACGAAAGA	TCTTCGTGTGGCAAAGGTCTCGG
2766	ACCGCGGTGTACACCTGAGCAGGC	GCCTGCTCAGGTGTACACCGCGGT
2767	GTCGTACGCTTACCGCAGCGGAGA	TCTCCGCTGCAGGTAAGCGTACGAC
2768	TCGTAATTGACCGACACACCGAG	CTGCGTGTGTCGGTCAAATTACGA
2769	CCTAGACGGATAACCTGAGCGGAA	TTCCGCTCAGGGTATCCGTCTAGG
2770	AAGCGACAGCAGAGGTCAGTCGC	GCGACTGAACCTCTGCTGTCGCTT
2771	GCGTGGACGATATCACCTGGCGT	ACGCCAGGTATCGTCCACGC
2772	GTCGGAGAGCCAGTGGTACGGCTT	AAGCCGTACCACTGGCTCTCCGAC
2774	TATCCGCACGGTATAGCAGTTGCA	TGCAACTGCTATACCGTGCAGGATA
2775	CATCAGTCGGCTACCTTCAGCCT	AGGCTGAAGGTAGCCCAGTGATG
2776	CGGATTAATGCCTTCCTCGGAAT	ATTCCGAGGAAAGGCATTAATCCG
2777	TTCGTCGTGCCAAGCTAATGCAAG	CTTGCATTAGCTGGCACGACGAA
2779	GGCCGAGACCACCAAGAACAGGTT	AACCTGTTACTGGTGGTCTCGGCC
2780	CGCGCGGAAGCATTGAAGTTACTA	TAGTAACCTCAATGCTCCGCGCG
2781	TCGGCTTACCGCTTCGTCTGACTT	AAGTCAGACGAAGCGGTAAAGCCGA
2782	GACTGACGTCAGGCAAGAACAC	GTGTTGCTTGCCTGACGTCAGTC
2783	AGAGGAAGGAGGGCTGTGACAGA	TCTGTCACAGCCCCCTCCTCCTCT
2784	TTCCAATGCGAGAGATGGCAGGCT	AGCCTGCCATCTCTCGCATTGGAA
2785	AAATGGGGTGCTTCGAATATGTCG	CGACATATTGAAAGCACCCATT
2786	GCTGTCGGATTATTGACGCCGT	ACAGGGCTGCAATAATCCGACAGC
2787	CCGACTTTGTTATGTTGCTGGCG	CGCCAGCAACATAAACAAAGTCGG
2788	GCTGCGATATAACCCGCTCCAGAA	TTCTGGACGGTTATATCGCAGC
2789	TGAGCTGGCGTCAACTCCGAAGA	TCTTCGGAGTTGACGCCAGCTCA
2790	CCCAAGCATTCTAAATCTCCCTCG	CGAGGGAGATTAGGATGCTTGGG
2791	CGACAGCAATCCACATGCATTCT	AAGAATGCATGTGGATTGCTGTCG
2792	TGAATGGTCGGAAACCAATGCAT	ATGCATTGGTTCCCGACCATTCA
2793	CTTGATCGAGATGCGGGGTAGC	GCTACCCCGCATCTCGATGCAAAG
2794	TCCATTCTCCGCAACTCTCAGG	CCTGAGAGTTGCGGAGGAAATGGA
2795	CCACTACGCCATCCTGACAACGAG	CTCGTTGTCAGGATGGCGTAGTGG
2796	TAGTAAGGCCAATGTACGCCGTCC	GGACGGCGTACATTGGCCTTACTA
2797	GTCATGCATATGGGGCCTGTTTC	GAAAACAGGCCCATATGCATGAC
2798	ACCGGTAGACGTTAGCGGGTCAA	TTGAACCCGCTAACGTCTACCGGT
2799	TTGGTTCAAACGGCCACACGTC	GAGACGTGTGCCGTTGAACCAA
2800	GACACAAACTGCAAGGGAGGCATG	CATGCCCTCCCTGCAGTTGTGTC
2801	CTCGAGCGCTGTACATCATATCGC	GCCGATATGATGACAGCGCTCGAG
2802	GCGGCTAAGGCACAAGTAGACGTG	CACGTCTACTTGTGCCTAGCCGC

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A9

2803	ACAGCCTAAATGGCGCAAGACCGA	TCGGTCTTGCGCCATTAGGCTGT
2805	CCGATGATGTAAGCCGTCGGCCCT	AGGGCCGACGGCTTACATCATCGG
2806	AGGAGCAAACAAACGCCAGTGACA	TGTCACTGGCGTTGTTGCTCCT
2807	ACGAATTGGGTAGCCGGACTGAGA	TCTCAGTCCGGCTACCCAATTCGT
2808	CTGTTCCAGTCGGCAAGTGCAGC	GCCGCACTTGCCGAACGGAAACAG
2809	AGACAAGTCAGGAACGCGTTCCG	CGGAAACGCGTCTGACTTGTCT
2810	AGACGACGGCCAGATACGCTGCCA	TGGCAGCGTATCTGGCCGTGCTCT
2811	AGGAAGCGCTTCTCCGGTTCTC	GAAGAACCGGAAGAACGCGCTTCCT
2812	GATGGACGCAAACACAAGGCGATC	GATCGCCTTGTGTTGCGTCCATC
2813	CGCATAGCAGTCTCCGCATCTTGG	CCAAGATGCGGAGACTGCTATGCG
2814	TGGTCCGGTGTGCAACAGATAAA	TTTATCTGTTGCACACCGGAACCA
2815	CCGTATGCCACCTCCAGAACTCAA	TTGAGTTCTGGAGGTGGCATAACGG
2816	GTAAAGGAACCCCTCGGGAACTCCT	AGGATTCCCAGGGGTTCTTAC
2817	GCCTGATGCTCGTTAAATTGCGT	ACGCAATTAAACGAGCATCAGGC
2818	TCGCACTGGACCATGAGATCTGA	TCAGATCTCATGGTCCAAGTGCAG
2819	TTCTCAGGCTGGGCAAGAGTCTGT	ACAGACTCTGCCAGCCTGAGAA
2820	CGGACCTGGGGATGCTGGGATTAC	GTAATCCCAGCATCCCAGGTCCG
2821	TCGAGCCGATAGGGTGGCATTGC	GCAATGCCAACCCATCGGCTCGA
2822	TACGTGTGTCACACACGTCGTA	TACGACGTGTGAGACACACGTA
2823	TGTGAAATTGCGTTGCGATCTT	AAGATGCGAAACGCGAATTTCACA
2824	TTGCAATGCTCCAAAAAAACTGCC	GGCAGTTTTGGAGCATTGCAA
2825	TCTCATCATGGCTGTGGCTTGAC	GTCAAAGCCACAGCCATGATGAGA
2826	ATTACACCGCTTGGTTGGAGTGG	CCACTCCAAACCAAGCGGTGTAAT
2827	GCCGTGCAATGCACAGAGTCAAG	CTTGAACCTCTGTCATTGCACGGC
2828	GAGATCAGACCGTGTGGATGCTG	CAGCATCCGACACGGTCTGATCTC
2829	CCACCTATCTTGTGCGACCTGGA	TCCAGGTGCGATCAAGATAGGTGG
2830	CCGATGCCGTTATGTCTACGGC	GCCGTAGACATAACGGCGATCGG
2831	GAAAATCACGGTAAGGCACGTTCG	CGAACGTGCCTTACCGTGATTTTC
2832	GATTCTCGCTTCCCAACGAGCATA	TATGCTCGTTGGAAAGCGAGAATC
2834	TGTGAAATGTGGCAGTCTCAGGG	TCCCTGAGACTGCCACATTCACA
2835	CGATCCTGCGTGCCTCATCCAGGC	GCCTGGATGAGGCACGCAGGATCG
2836	CCCTCAAGTGGCGAGGGTTTCA	TGAAAACCCCTGCCACTTGAGGG
2837	TCGCCTCCGCCCTGTGTAGAAG	CTTCTACACACGAGGCGGAGGCCA
2838	TTCGCTTCAGCTATTGAAACGA	TCGTTCCAATGAGCTGAAAGCGAA
2839	TGTAATCTGAACAAGCGGACCCCT	AGGGGTCCGCTTGTTCAGATTACA
2840	TGGAATCTTCTTGAGCGCCGTGA	TCACGGCGCTCAAGAAAGATTCCA
2841	GGCTTCATCTTAACCGCTCGGT	ACCGAGCGGTTAAAGATGAAAGCC
2842	TGATCCGAGCCATTCTAATCACC	GGTGATTAGGAATGGCTCGGATCA

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2843	TGGTAGGCGTGATGTCCTACGCAA	TTGCGTAGGACATCACGCCTACCA
2844	AGGCATCGGTAAGAAGGCCCTATG	CATAGGGCCTTCTTACCGATGCCT
2845	CGCCGCGAGACGATCCTTATTATT	AATAATAAGGATCGTCTCGCGCG
2846	ACATGGACGAAATTACGCCCGTCA	TGACGGGCGTAATTCGTCCATGT
2847	ACAGAAAGGTGGGGAGCCTAGCGT	ACGCTAGGCTCCCCACCTTCTGT
2848	AGGCTTGCAGACATGGGTAGTGAC	GTCACTACCCATGTTCGCAAGCCT
2849	GCGTGGGCCCTGCTCCTGTTAAC	GTTAACACAGGAGCAAGGCCACGC
2850	GAATACAGAGCGTCCGATGTGCC	GGGCACATCGGACGCTCTGTATT
2851	GCGACTCTGTAGGGAGCGCGATAT	ATATCGCGCTCCCTACAGAGTCGC
2852	GGTGCACTCATATGCGTCGCATCG	CGATGCGACGCATATGAGTGCACC
2853	CTGTCCCACGGGAAACCTTACTT	AAGTAAGGTTCCCCGTGGGACAG
2854	TGGCTTACTGTCGCAATCTAGGCC	GGCCTAGATTGCGACAGTAAGCCA
2855	GCACTCAGTTCCGGTATCCCATG	CATGGGATACCGGAAACTGAGTGC
2856	GTGAGGTTCACGTAAGGCACAGCG	CGCTGTGCCTTACGTGAACCTCAC
2857	GTAACGCCTTGTCCCCAGCGTAT	ATACGCTGGGGACAAAGGCGTTAC
2858	GCATTGATATGGTCGGTCTGCCT	AGGCGAGACCGACCATAATCAATGC
2859	GTGGGTTAAAGTGACAACGGACGC	GCGTCCGTTGTCACTAAACCCAC
2860	CAAAACCCCTGCCGAAGATGTTGGT	ACCAACATCTCGGCAGGGTTTG
2861	TCCGAGGAGACTGAACCTGCTACC	GGTAGCAGGTTCAGTCTCCTCGGA
2862	CGGGGAAGAACGGATTGCTAAAT	ATTTAGCGAATCCGTTCTCCCCG
2863	TGGTTAGCTTATGTCGGAGCCACC	GGTGGCTCCGACATAAGCTAACCA
2864	ACCGCGTCGATGAACTAAGGCTCGC	GCGAGCCTTAGTTCATCGACGCGT
2865	TTCTCCTGACGAGTACGCAGTGGG	CCCAC TGCGTACTCGTCAGGAGAA
2866	TCCCGGGTTGCCGGTTGTTAGGA	TCCTAACAAACCGCAACCGCGGA
2867	TGGCGCATTTCAAGGGATGATG	CATCATCCCCTGAAAGATGCGCCA
2868	TCTTGGTCCTGGTACGCG	CGCGTAAACACCAAGGACCAAAGA
2869	GAGAACTCCGCTACAAAGGAGCC	GGCTCCTTGTAGCGGGAGTTCTC
2870	TTAACGTGGGAACCGTTGGTGAAT	ATTACCAACGGTTCCCACGTTAA
2871	GGGACACCATCCTGGGTTGTTA	TAACAAACCCAAGGATGGTGTCCC
2872	CAACAAACCGCCTGGGAAGTGAC	GTCACCTCCAAGGCAGGTTGTTG
2873	TTGAAGGCCACCGATACTGATCGC	GCGATCAGTATCGGTGGCCTCAA
2874	TCGTAATAGAACTGCCCAATGC	GCATTGGCGCAGTTCTATTACGA
2875	GGCACGTTGCCCAAGTGGATCCA	TGGATCCAACCTGGCAACGTGCC
2876	ACATAGCTGGCCGGACACCCACC	GGTGGGTGTCCGGCAAGCTATGT
2877	CTTGGCGCCTGCGAGTGGCTAA	TTTAGCCACTCGCAAGGCCGGCAAG
2879	AATGGCTGCCAGATACCGCAGCC	GGCTGCGGTATCTGGCGAGCCATT
2880	CAAAAGGCGTGTCCGAACCTTCA	TGAAAAGTTCGGACACGCCCTTTG
2881	CGTCCACTTAGGTGGAGATACGCC	GGCGTATCTCCACCTAAGTGGACG

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2882	GAGCCTTCGTCCTGAAGACCGA	TCGGTCTTCAGGACGAAGAGGCTC
2883	AACATCAAGCGGCAATCTCCCTC	GAAGGGAGATTGCCGCTTGATGTT
2884	CGTCCTGACATTATTAGCGCGTGC	GCACCGCTAATAATGTCAGGACG
2885	TGTGCAGACCCCTAACGACCTACGG	CCGTAGGTCGTTAGGGCTGCACA
2886	TTAGGTCGGCCTAGACCCCTCGTA	TACGGAGGGCTAGGCCGACCTAA
2887	TCACATCGCTTAACGTAGCGCATT	AATGCGCTCAGTTAACGCGATGTGA
2888	AGACCTTCCCACCGAGATGCTAC	GTAGCATCTCGCGTGGGAAGGTCT
2889	TTCTTGCCAAAATGTGTCCAACCA	TGGTTGGACACATTTGGCAAGAA
2890	CAGTTTCATTGCAGCGAAAGCAA	TTGCTTCGCTGCAATGAAAATG
2891	GTGCCGATCCCAGAGACAAGTCCG	CGGAACTTGTCCTGGGATCGGCAC
2892	CATCCGGCCTCAGTGATTCTTACC	GGTAAGAACATCACTGAGGCCGGATG
2893	TGCTGGAAGCCACAAACGTTACGT	ACGTAACGTTGTGGCTCCAGCA
2894	GAACGGCCAGGGGACAACATACGT	ACGATAGTTGTCCTGGCCGTT
2895	TCATCTAGGTCGAAGCGCAAGACA	TGTCTTGCCTCGACCTAGATGA
2896	TTTGGTTACCAGCACCCATGTTCC	GGAACATGGGTGCTGGTAACCAA
2897	GACAACAGTCTGTCGCCACATCC	GGATGTGGCGGACAGACTGTTGTC
2898	GCCAACAGGAGATGCTGCACCAT	ATGGTGCAAGCATCTCCTGTTGGC
2899	CTAAGGACGCATTGACCCCTGAAC	GTTCAGGGGTCATGCGTCCTTAG
2900	GGTCGCGTAGTGAGTCAGAGCGT	ACGCCTCTGACTCACTACGCGACC
2901	TTACCTCATGAAACCTTCGCGCG	CGCCCGGAAGGGTCATGAGGTAA
2902	TATACAGCATCGTCGCCGGGCATA	TATGCCCGGCCACGATGCTGTATA
2903	GCTTAGTGGCGTCTCGCTGAGG	CCTACGACGAAGACGCCACTAACG
2904	TGCACCTCCGCAACCTTGTGAAATC	GATTCACAAGGTTGCGGAGTGCA
2905	AACCCGTATGCCACTCCATCTA	TAGATGGAGTCGGCATGACGGTT
2906	AGCACTAGTGGCGTGCGACTTGC	GCAAAGTCGCACGCCACTAGTGCT
2907	TAAAAAAGTGCCGCTAACACGGAG	CTCCGTGGTTAGCGGCACTTTTA
2908	CGCGGAATATTCGTCGTCGATT	GAATCGGACGACAAATATTCCGCG
2909	TTCTGCTATGCGTATGGGGCCCG	CGGGCCCCCATACGCATAGCAGAA
2910	CGAACTACTGCGTCAGCCTCTCCC	GGGAGAGGCTGACGCAGTAGTCG
2911	AGATGACGAATTAGCGGGTTGGG	CCCAACCCGCTAATTGTCATCT
2912	AATAACAGTGGCAATGAGCGGGAA	TTCCCGCTATTGCCACTGTTATT
2913	ATATGTTGATTCCCGTGCACCA	TGTGCAGCACGGGAATCAACATAT
2914	AGAGTGGCACCACCAGGCAGACA	TGTCTGCCTGGTGGTGCCACTCT
2915	AGGCCTGGTTCTCGGTCTTAGT	ACTAACGACGAGAAACCCAGGCCT
2917	CGGACGTGACAAACGGACATACCC	GGGTATGTCCGTTGTACGTCCG
2918	CAAGTGTTCGGCCAACCTCTCGA	TCGAGAGTTGGGCCAACACTTG
2919	GAACCCTTATCGGGATAGGCCAA	TTGGGCCTATCCCGATAAGGGTTC
2920	CAGGACGATACCAAGCAGAACGCC	GGCGTTCTGCTGGTATCGTCCTG

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2921	GCGCTTGTGATTCTGCCCTAAC	GGTTAGGGCAGAACATACAAGACGC
2922	AAACAACCATCAATGTCGGGTC	TGGACCCGACATTGATGGTTGTTT
2923	TGTAAAGACCAGTGGCGGCTCTC	GAGAGCCGCCAACTGGTCTTACA
2924	GCGTTTGACTCGGTGGTCAGTCC	GGACTGACCACCGAGTAAAACGC
2925	TGTATGGAGGCACGGCAAAGTCTT	AAGACTTGCCTGCGCTCCATACA
2926	TTACCTAGGTTCCCGCTGACACGC	GCGTGCAGCGGGAACCTAGGTAA
2927	CGGCTCGTGGGAATCCTCTGAAGA	TCTTCAGAGGATTCCCACGAGCCG
2928	CCGGCTCGGGCATTCTTGGACCT	AGGTCCAAGAAATGCCCGAGCCGG
2929	CAACGATGGAATTGTCCTTGGG	CCCAAGGAGACAATTCCATCGTTG
2930	CGGGCTATTATCGGGATTATGGGG	CCCCATAATCCCGATAATAGCCCG
2931	ACGTACCTGAAGATGCAACGGCG	CCGCCGTTGCATCTCAGGTACGT
2932	CATGGTGCAGCACGACAAGTAAC	GTTACTTGTGCGTGCTGCACCATG
2933	CGTCGATATGTCGGCTATTGCCT	AGGCAATAGCCCGACATATCGACG
2934	AAATGCAGGGTTAACAGGGAGGCC	GGGCCTCCTCTTAACCTGCATT
2935	TGCAAGGACTGATTCTCCGCTGT	ACAGCGGGAGAACATAGTCCTTGCA
2936	GTTTCGGAACGCCGAGAGTTCA	TGAACCTGCGCGTTCCGAAAC
2937	CCCTCGATGGTTCATGGGAAGAC	GTCTTCCAATGAACCATCGAGGG
2938	CCTGTTCGCTCATAATGGTGGGT	ACCCCCACCATTATGAGCGAACAGG
2939	GAAAGAACGATCGCGGAATAGCTG	CAGCTATTCCGCGATCGTTCTTC
2940	TCCACCTGTGTCGCTTTATCCTCA	TGAGGATAAAGGCACACAGGTGGA
2941	TCCTCCGTGAACCGCTGTAGCGCA	TGCGCTACAGCGGTTACGGAGGA
2943	TTGAGATTTTACGGTTCCCGC	GCAGGGAAACCGTAAAATCTCAA
2944	CGATAGGACGTGGCATGTCCCAG	CTGGGACATGCCACGTCCTATCG
2945	CCCGAACTTGAGATCCGAGAAC	TGTTCTCGGATCTCAAAGTTGGG
2946	TCACCGCAGCTAGAGTCGCGTTACC	GGTAACCGCGACTCTAGCTGCGTGA
2947	AGATAACGCCACTGACGACATGC	GCATGTCGTCACTGGCGTTATCT
2948	ACGCTTAGAGCTCCGATGCCGAAT	ATTCCGGCATCGGAGCTAAGCGT
2949	GGCGATAACTAAATTGTGCCGC	GCAGGCACAATTAAAGTTATGCC
2950	AGGACGTTCATGCGCTCTTGCA	TGCAAAGAGACGCATGAACGTCC
2951	CGGCTGGTAGAACTGTGCATCGTA	TACGATGCACAGTTCTACCAGCCG
2952	TTCGAAATGTACTTCCACGCGGA	TCCCGCTGGGAAGTACATTCGAA
2953	GCAGGTTGGCTGTCTGGAGTC	GACTCCACAAGACAGCCAACCTGC
2954	CGTTGGTTGCTTCAAGAACCGGT	ACCGGTTCTGAAGCAACCAAACG
2955	CATACTGGTTGTTGTGCCACGC	GCGTGGGCACAAACAACCAAGTATG
2956	GGGGTCGGCTGAAGTGTTTATCC	GGATAAAACACTTCAGCCGACCCC
2957	GTGACGGTTGATTAACGACCGTGG	CCACGGTCGTTAATCAACCGTCAC
2958	CTTATGGCAGCGCCAGGGCACTC	GAGTGCCCCGGCGCTGCCATAAG
2959	GTAGGGGACCCACCTCGTTGAT	ATCAAACGAGGTGGGTCCCCTAAC

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2960	CAATATAAATGCCGCGCATCGAGT	ACTCGATGCGCGGCATTATATTG
2961	TTCTTCATCAGCAGTCCCCGAGAA	TTCTCGGGACTGCTGATGAAGAA
2962	AGTTGCGTCCCTGATGGCATT	AAAATGCCATCAAGGGACGCAACT
2963	CCGACTTTCGTCCACGATTCTCT	AGAGGAATCGTGGACGAAAGTCGG
2964	ACTTGGCCGGACGACAGCAAAGAC	GTCTTGCTGTCGTCCGGCCAAGT
2965	CACCGCGGTAGATGTATCCCTCC	GGAAGGGATACATCTACCGCGGTG
2966	GTTAGCTTAGCTCGGCACGCCCTG	CAGGCCTGCCAGCTAAAGCTAAC
2967	GCGCATAAGAAGGTCCGCTAAAGC	GCTTAGCGGACCTCTTATGCGC
2968	ACATCATCACGCCCTGGCGTACCA	TGGTCACGCCAGGCCTGATGATGT
2969	CCGGCGAAGTTGGTGTGATTAGA	TCTAATCACACCAAACCTCGCCGG
2971	TGCACCGCCAGATTGTGCTGAGTC	GACTCAGCACAATCTGGCGGTGCA
2972	ACATGTGAAGTGAGTGCCGTCAA	TTGGACGGCACTCACTCACATGT
2973	CCTCTGGAGGGGATTAGCCACGCT	AGCGTGGCTAATCCCCTCCAGAGG
2974	CAATAGCCATGTCACTGGAACGG	CCGTTGCCAGTGACATGGCTATTG
2975	ACCCATGGTCCAACGTTCTTCG	CGAAAGAACGTTGGAACCATGGGT
2976	AATCTGGTCTTGGCATCCTCCAAA	TTTGGAGGATGCCAAGACCAGATT
2977	GTATACCGGTGCATGCTGAAGCAA	TTGCTTCAGCATGCACCGGTATAC
2978	AGTGTCTGGTCAGTCGACCG	CGGGTCACTCGAACCAAGAACACT
2979	CGGGTATTCGACACACACGAGGAC	GTCCTCGTGTGTCGAATACCCG
2980	AGTGCAACAGAGCGCTTGGTCACG	CGTGACCAAGCGCTCTGTTGCACT
2981	TGCACCTATAGTTGGTCCCCGTG	CACCGGCACCAAACTATAGGTGCA
2982	TGCTCACGTACCAGGACACTCGAG	CTCGAGTGTCCCTGGTACGTGAGCA
2983	AGTCCACACCTCGAACGACAGGCG	CGCCTGTCGTTGAGGTGTGGACT
2984	CGCCGACCTGGTCAAAGAGCGCTA	TAGCGCTTTGACCAAGGTGGCG
2985	GCCTAAGGGCCTGCGTTCCGA	TCGGAAAACGACAGGCCCTAGGC
2986	TGTGCGTGCTTATGTTCCGGTCTC	GAGACCGGAACATAAGCACCGCACA
2987	CAACCGTTGGCCGTAACAAAAATC	GATTTTGTTACGGCAACGGTTG
2988	CGAGAATCAAGGCCTACCATCTCG	CGAGATGGTACGCCCTGATTCTCG
2989	GCGTAGGCAGCCTCCAGGGATGG	CCATTCCTGGAGGCTGCCCTACGC
2990	GATGGTGTTCGCCAAGACCAAT	ATTGGTCTTGGCGAAAACACCATC
2991	CAAGCTAGGGACAGAATTGCCAC	GTGGGCAATTCTGTCCTAGCTTG
2992	TAAATAGGCGAAACCGTTGTCGGC	GCCACGAACGGTTCGCCTATTAA
2993	TCAAGACCCGCAATGTGTCATGT	ACATGAACACATTGCGGGTCTTGA
2994	GCGGCTGGTAGACTCTTGACAA	TTGTGCAAAGAGTCTACCGCCGC
2995	CAGGCGTAAACCTGAACCAAACGG	CCGTTGGTTCAAGGTTACGCCCTG
2996	GCCGATCTGTGCTGAGGTTCATCA	TGATGAACCTCAGCACAGATCGGC
2997	GATATCGCGTCGCAATATCACGCG	CGCGTGATATTGCGACGCGATATC
2998	CCCTGCACGATTAAGCCACCTGTA	TACAGGTGGCTTAATCGTGCAGGG

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A9

2999	TGACATACAGATTGTGTGGCCCC	GGGGCCACACAAATCTGTATGTCA
3000	GTTCGGGCCGGTATTACGATGT	ACATCGTGAATACCGGCCGCAAAC
3001	TTTACCTGGCATTGGTGAGCTC	GAGCTCACCAATGCCAGGTAAAA
3002	CTCTACTCAATCAGGGTGGGAGCG	CGCTCCACCCCTGATTGAGTAGAG
3003	GGGTTGGAGGGAGTCTTGACCATT	AATGGTCAAGACTCCCTCCAACCC
3004	CGAGGTGGTAAGGAAAAGCTTGC	GCAAGCTTTCCCTACCGACCTCG
3005	CTTACGCAGGCACCTCCGAGCTG	CAGCTGGAGGTGCCTGCGTAAAG
3006	CATTGTATGGCCACGTGATTGACG	CGTCAATCACGTGGCCATACAATG
3007	GTACGGTGCAGAGCGCCTAACGCG	CGCTTAGGCGCTCTGCACCGTAC
3008	TTCCATATGCCGAAATGGACACAA	TTGTGTCCTTCGGCATATGGAA
3009	TACGCCCTCCGCTATAGCTCGTGA	TCACGAGCTATAGCGGAAGGCGTA
3011	CTGTACGCCACGCATGAAGGGTGA	TCACCCCTCATGCGTGGCGTACAG
3012	CTTACGCGTCCAATGACTGCCACC	GGTGGCAGTCATTGGACCGCGTAAG
3013	CACATGGTAGAACTCGATGGCAG	CTGCCGATCGAGTTCTACCATGTG
3014	CGCACCGGAAACTAGTGGATGTGT	ACACATCCACTAGTTCCGGTGCG
3015	ACTATGGCAACCGACACTTGGTCC	GGACCAAGTGTGGTTGCCATAGT
3016	CTAGTTGCGCTACCCACCTGCAA	TTGCAGGTGGGTAGCGCAAACTAG
3017	TAGTATGCCCGACAATAGCCTGG	CCAGGCTATTGTCGGCGATACTA
3018	CCAATATTACGGCCTGATCAGCG	CGCTGATCAGGCCGTAAATATTGG
3019	ATGGCTATCCCTACTGGCTCGCC	GGCGAGCCAGTAAGGGATAGCCAT
3020	CAAAACTTGGCAGGCTTGGACTT	AAGTCCCAAGCCTGCCAAGTTTG
3021	AATGACCGAGGCTGCAAGATTGAC	GTCAATCTGCAGCCTCGGTCAATT
3022	ATCATTTGCCACCAGACATGG	CCATGTCGGTGGCGAAAGATGAT
3023	CGTTATTACCGATGCACACGTTGC	GCAACGTGTGCATCGGTAAATAACG
3024	CACACTGGCAATGCCCTCCCTCGT	ACGAGGGAGGCATTGCCAGTGTG
3025	AGGTTGGTAGGAAATCGGAGCGCT	AGCGCTCCGATTCCCTACCAACCT
3026	GCTGAACCACTGTGGTAAGATGC	GCATCTGACCAAGTGGTCAGC
3027	CGTTGAGTACGACACGGTCGAGGT	ACCTCGACCGTGTGACTCAACG
3028	TTTTCCGCCGCAATGTGATCTAA	TTAGATCACATTGGCGGGAAAAAA
3029	ACAATACCTCGACCGCTCAGCATC	GATGCTGAGCGGTCGAGGTATTGT
3030	AGTATCCCTGCTGGCATAACCGGG	CCCGTGTATGCCAGCAGGGATACT
3031	TCTTGGGCTCGGTAGTCAGCACT	AGTGCTGAACCTACCGAGCCCAAGA
3032	CCCTATATCGAGCCCATAAGGGCGA	TCGCCCTATGGGCTCGATATAGGG
3033	CACGAGTGGCATAACGGCCTACT	AGTAGGCCGTTGATGCCACTCGTG
3034	TGCAGGGTCCGATGTGTTCAAGTA	TACTTGAACACATCGGACCCCTGCA
3035	GCTTGACCGCTGCTAACCTCGTAC	GTACGAGGTTAGCAGCGGTCAAGC
3036	TTTGCATCTCTCCACCATCCAGA	TCTGGATGGTGGAGAGATGAAAAA
3037	AGAATGTGCACCGGCTTCCATCTT	AAGATGGAAGCCGGTGCACATTCT

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3038	TGTTATGACCGCTCTGGCGTG	CACGCCACAGAGCGGGTCATAACA
3039	GGAGCTCTGTTCATCGAGGCTA	TAGCCTCGATGAAACAGGAGCTCC
3040	CATTTGCTGTTGGGGTCCCCT	ATGGGACCCCCAACAGCAAAATG
3041	CCCGCTCCTCACGTGAGACGAGA	TCTCGTCTCACGTGAAGGAGCGGG
3042	GCGCTCAAGTCGATTGCCACAACC	GGTTGTGGCAATCGACTTGAGCGC
3043	CGGTTGACGGAGACCGCAGTACTT	AAGTACTGCGGTCTCCGTCAACCG
3044	ACTCAAGACCGGTGCACCTCCAGC	GCTGGAGGTGCACCGGTCTTGAGT
3046	TTTCGTGTGCATGCAAGTAATGGC	GCCATTACTTGCATGCACACGAAA
3047	GC GGCGTTAGCTCGAGCTAACAAA	TTTGTAGCTCGAGCTAACGCCGC
3048	GGGTATCCTGCCCGAGCAGTAATT	AATTACTGCTGGGCAGGATACCC
3049	GGCTCCGAATCTCTTGTCCGGTCT	AGACCCGACAAGAGATTGGAGCC
3050	AGGATGGCCACGCCAACAAAGT	ACTTGATTGGCGTGGCCATCCT
3051	GTGCGGGGACGTTACATAACGAG	CTCGTTATGTAACGTCCCCGCAC
3052	ACTTTGACCTGAGGCCGCTTGCA	TGCAAGCGGCCCTCAGGTAAAAGT
3053	ACTCCGCTTCAATGGAGACCGTTG	CAACGGTCTCCATTGAAGCGGAGT
3054	GATCGGAATTGCCGCCATTGA	TCAATATGGCGGCGAATTCCGATC
3055	ATGCGTGCCCATGGAATGACTTTT	AAAAGTCATTCCATGGGCACGCAT
3056	CCGCATCGCACGAAGGCAGGTCT	ATGACCTGCCTCGTGCATGCGG
3057	CACCCATGCGTCTCCAATTCTG	CAGGAATTGGAGACGCATAGGGTG
3058	TGATATGCATCGCTGAGCCTCTGT	ACAGAGGCTCAGCGATGCATATCA
3059	AGCTTACACGCTACTAACCTG	CAGGTTAGTGAAGCGTGTGAAGCT
3060	AAACCGGAACCTCCTCTCACTCGG	CCGAGTGAAGAGGAGGTTCCGGGTT
3061	CTCGTCAAACCTGGCGAGGAGTC	GAECTCCTGGCCAAGTTGACGAG
3062	GTAGCTGGAACAGGAATCAGGA	TCCTGATTGCCTGTTGCCAGCTAC
3063	CTTGTACCGAATATTGCCAACGCG	CGCTTGGCGAATATTGTGACAAG
3064	CAGTATCTGAAACACGGGTGCTG	CAGCACCCGTGTTCAAGATACTG
3065	GGCTAAAATGGCGCCCACGTGTA	TACACGTGGCGCCATTAGCC
3066	ATGAGAGCCAAGCGCCTCAACTCC	GGAGTTGAGGCCTGGCTCTCAT
3067	TATTGTTAGGCACCGCTCGCGCT	AGCGCGAACAGCGGTGCCTAACAAATA
3068	GGAACTAGATTGCCAGTGCTCGCC	GGCGAGCACTGGCAATCTAGTCC
3069	AGTCGACCCCAAGGCAACTGGTC	GACCCAGTTGCCTGGGTGCACT
3070	GGTACTGTTAGCTCGACGATGGCC	GGCCATCGTCAAGCTAACAGTACC
3071	CCGCAATACTGACGGTAACAGGG	CCCTGTTACCGTCAGTATTGCGG
3072	AATTCCGGGTTGAAACGGTGGAA	TTCCAACCGTTCAAACCCGGAATT
3073	GACACGCAATCGGGTCTATGCGAA	TTCGCATAGACCCGATTGCGTGTC
3074	GATTTGGCGTCTCATTGCGTGAT	ATCACCGCAATGAGACGCCAAATC
3075	TGCCATAGGGAGGAAACGCAATT	TAATTGCGTTCCCTCCATGGCA
3076	GAGGTGCCATGTTAGTGGGTGTC	GGACACCACTAACATGGGCACCTC

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3077	GCTTTAGCGGTACAGACCA	TGGTGGTCGTATGACCGCTAAAGC
3078	CCGCTACCAACAATCCGATTAACG	CGTTAACGGATTGTTGGTAGCGG
3080	GAGGATCTGCCACATCGAGAAAG	CTTTCTCGATGTGCCAGATCCTC
3081	CTCGTTGGTACCAACGTTGCCG	CGGCAAAACGTGGTACCAAACGAG
3082	AATACACCGCGTAAACAGACGA	TCGCTGTTACGCCCGTGTATT
3083	TGTCACTGGCCAAATGACAGTGGC	GCCACTGTCATTGGCCCATGACA
3084	ACAGCACCTCCGACCCGTACGA	TCGTACACGGTCGGAAGTGCTGT
3085	CTCCGTAAAGAGACACAGCTTGCC	GGCAAAGCTGTGCTCTTACGGAG
3086	ACGAACAGGTAGGGATCGGTCTC	GAGGACCGATCCCTACCTGTTCGT
3087	TGGATCCACCTTACCGCGCCATCG	CGATGGCGCGGTAAAGGTGGATCCA
3088	AGTATCAAATAGCGGCGCGCAAG	CTTGGCGCGCGTATTGATACT
3089	GAATTACATTGTGGATGGAGGCGG	CCGCCTCCATCCACAATGTAATTC
3090	CTCCTCGGGGAGTCGAGGAGTACG	CGTACTCCTCGACTCCCCGAGGAG
3091	AGTGTGAGCCAACCTCCACCAAT	ATTGGTGGGAGTTGGCTGACACT
3092	AAATGACATCCGTTGGCACAGC	GCTGTGGCCAAACGGATGTCATT
3093	CGAATCATATGCCATCGAACTGG	CCAGTTCGATGGCGATATGATTG
3094	TATAATGCACTCGCTTGGTGC	TGCGCACCAAGCGAGTGCATTATA
3095	GCCAAGCAGATGGTAATTATGGCG	CGCCATAATTACCATCTGCTTGGC
3096	CACGCGGGAAAGAGCACGTAGAACT	AGTTCTACGTGCTCTCCCGCGTG
3097	TACCCGAGAATTGGAGAACAGCG	CGCTGTTCTCCAAATTCTCGGGTA
3098	TGACGGCAAACGTGGCATCTATC	GATAGATGCCACAGTTGCCGTCA
3099	CACAGTGTCCAGGCCCTGACGAT	ATCGTCAAGGGCTGGAACACTGTG
3100	TACCCGCCACACATGAAAGTTGG	CCAACTTCATGTGTGGCGGGTA
3101	TGGCATATTAAGATTGGCGACG	CGTCGCCGAATCTAAATATGCCA
3102	ACTGAAAAAAGAACGGTAGCGGG	CCCGCTACCCGTTCTTTTCAGT
3103	TCTGACCGCAATAGGTGGTATTG	CAATGACCACCTATTGGCGTCAGA
3104	ACTTTTGGCGGGCCCTCTCGT	ACGAGAGAGGGCCGCCAAAAAGT
3105	CTGCCCAGATCATTGCGCGATCCG	CGGATCGCGCAATGATCTGGGCAG
3106	CGGAGGTTAAATGCTTAACCGGC	GCCGGTTAAAGCATTAAACCTCCG
3107	AGGCGTCTCCAAACGTCTCTGT	ACAGAAGGACGTTGGAGACGCCT
3108	AGATGCTATCCTGAGTGGGCCTGC	GCAGGGCCACTCAGGATAGCATCT
3109	ACAGGGTGAAGAGACCGTGGGATG	CATCCCACGGTCTCTCACCTGT
3110	GAATGTCTAACGGACGACACGACG	CGTCGTGTCGTCGTTAGACAGTC
3111	AGCTGTTAGGACCCGACAACCGGT	ACCGGTTGTCGGGTCTAACAGCT
3112	TTGCGTAGTGTGGCATTCTCT	AGAGGAAATGCCACACTACGCAA
3113	ATGCGCGCTTCTTCCTTGATGTA	TACATCAAGGAAAGAAGCGCGCAT
3114	TTAAGGGCGTCCGCGTCTATTCA	CTGAATAGACCGGGACGCCCTAA
3115	ACCTTAAACTGTACCGCGGCC	GGGCCCGGTACAAGTTAAAGGT

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3116	AGGGATGCAGAGGCACCACATGTT	AACATGTGGTGCCTCTGCATCCCT
3117	CGGTCGACGTATGAGCATCCGCA	TGCGGATGCTCATACGTCGAACCG
3118	CAGGGCGATAGTCACATGGAGGTT	AACCTCCATGTGACTATGCCCTG
3119	GCTTGACTGCCCGTTCATATGT	ACATATGAAACGGGGCAGTCAGC
3120	CGAAGGGTTGTGCAATTACCGA	TCGGGTAATTGACAAACCCCTCG
3121	AAAACGCACCGCAATGACAAAATT	AATTTGTCATTGCGGTGCGTTT
3122	ATTCCTGGACAAGACCCCTAACCG	CGGTTGAGGGCTTGTCCAGGAAT
3123	CCTACCTGCCTGCTAGCGGTGAGG	CCTCACCGCTAGCAGGCAGGTAGG
3124	GCTCGTAAATGGGGAGGAATTGGA	TCCAATTCCCTCCCCATTACGAGC
3125	ACATGAAAACAGGCTCAATTGGGG	CCCCAATTGAGCCTGTTTATGT
3126	GTTCCGACATGGATTGAGGTCTC	GAGACCTCAATCCATGTGCGGAAC
3127	GGCACCCAATACCACGAAGAAGAA	TTCTTCTCGTGGTATTGGGTGCC
3128	AGGGGCATTCGAACCTCATCTT	AAAGATGGAGTTGAAATGCCCT
3129	CATCATCACAAAGGAACGTGGTG	CACCGACGTTCCCTTGTGATGATG
3130	TAAAGACCCACCGTCAGCAGCAGC	GCTGCTGCTGACGGTGGTCTTTA
3131	CCCCAGGCATAATGCACCACATAG	CTATGTGGTGCATTACGCCCTGGGG
3132	GCAGGTCGAACGCTAGTGGTTGAA	TTCAACCACTAGCGTTGACCTGC
3133	GGAACCTAGGAGTTCACGTGCCA	TGGCGACGTGAACTCCTAAGTTCC
3134	GCAGATACTGGCTAGCTGAGGTGGC	GCCACCTCAGCTAGCCGTATCTGC
3135	CACAGGCCTAGAGCCTCGGCGTTC	GAACGCCGAGGCTCTAGGCCTGTG
3136	TTTTGCGCGCATGAGGTTCATTA	TAATGAACCTCATGCGCGAAAAC
3137	TTGCGCCTGATGCCAGCAGTACTA	TAGTACTGCTGGCATCAGGCGCAA
3138	GATATCAGGCTTCCCCTGCCGC	GCAGCAGTGGAAAGCCTGATATC
3139	TGCGCGGAGACGGAGATCTATGAA	TTCATAGATCTCGTCTCCGCGCA
3140	CATTGGTGTGGCTGAGAGTGGAC	GTCCACTCTAGCCAACACCAATG
3141	GTCGGCACTGGGCACCATTAAATA	TATTAATGGTGCCAAGTGCCGAC
3142	ATCGATCGGTGTCTCACCAACGGAG	CTCCGTGGTGAGACACCGATCGAT
3143	CGTAGCCTCCACCGTGTGATAG	CTATCGACACGGTGGAAAGGCTACG
3144	CGCTCTCCGTCTGAGGAAAAGGGG	CCCCTTTCTCAGACGGAGAGCG
3145	TCGCCCCAGCCAAGGATATATTGC	GCAATATATCCTGGCTGGCGA
3146	TCTCTTGCAAGGAACCTGCCGT	GACGGCAGAGTTCTTGCAAGAGA
3147	GTCCTGGACAGACGGAGGGTTA	TAACACCCCTCCGTCTGCCAGGAC
3148	GCCAAATTAAAGCGGGCTGTAATC	GATTACGAGCCCGCTTAATTGGC
3149	CCATTGTTGACCGATGGAGGGG	CCCCTCCATCGGTCAACAAATGG
3150	TGGTCAAAGAGCACGATCCAGGA	TCCTGGATGTCGCTTTGACCA
3151	CGCTACTAAGACGCCCTGTCCAC	GTGGACAGGGCGTCTTAGTAGCG
3152	CATACCTCCGCTTGGATTCACTG	CAGTGAATCCAAGCGGGAGGTATG
3153	CCGCGGAAGGAATGTCATCTACAA	TTGTAGATGACATTCCCTCGCGG

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3154	CACGGGACATTCAATTACAGGACG	CGTCCTGTGAATGAATGTCCCGTG
3156	AGGAGTCACCCACTCCGCACAAAA	TTTGTGCGGAGTGGGTGACTCCT
3157	TCATGACAGCGCACCCATACCAT	ATGGTATGGGGTGCCTGTACATGA
3158	GGTAGGGACTATCGATCGTGTG	CAGCACGATCGATAGTCCCCTACC
3159	ATGTCTCACTACCGCACGTAGCGG	CCGCTACGTGCAGTAGTGAGACAT
3161	ACGGAGGAGCGACTCGTCCGCTGC	GCAGCGAACAGAGTCGCTCCCTCCG
3162	GAAGTCTCGCCGGTGGACGGAC	GTCCCGTCCACCGGGGACAGACTTC
3163	CCGTAACGTGTATTGGACGAGCG	CGCTCGTCCGAATACACGTTACGG
3164	CGTGGAAAGCGACTTAACCAATCGT	ACGATTGGTTAAGTCGCTTCCACG
3165	GGCATGGGCTATGCCTCACACTAG	CTAGTGTGAGGCATAGCCCATGCC
3166	GGGTCGTATTCAGCATCGTTCGT	ACGAACGATGCTGAAATACGACCC
3167	AATGGTCGGCAAAACCGTAAGAAT	ATTCTTACGGTTGCGCGACCATT
3168	CTGGATTGGTACGCCAACGTTT	AAACGTTGGACGTACCGAACCTCAG
3169	CGCAAAACACCCGTAGCCAAGAA	TTCTGGCTACGGGTGTTTGCG
3170	TATGGATACGCTTTGGACTGGC	GCCCAGTCCAAAAGCGTATCCATA
3171	GCTTCAAACCGCCTCACGCTGGT	ACCAGCGTGAAGCGCGTTGAAGC
3172	TACAGCCCCTCTACCTCGCCACC	GGTGGCGAGGTAGAGCGGGCTGTA
3173	TCAACCGATGTCAAAATGCACGTT	AACGTGCATTGGACATCGGTTGA
3174	AGCTCTCCGAAGTAGGGCGGT	TACCGCCCTACTTCGGAGAGAGCT
3175	ACGCACACATGGAGACTGGCTCC	GGAGCCAAGTCTCCATGTGTGCGT
3176	TTCTGAAAGCTAGTGGGGCGCTA	TAGCGCCCCACTAGCTTCAAGAA
3177	CAATCACGGCTGGCTATTCTGTG	CACAGAATAGCCCAGCCGTGATTG
3178	GTGGCGACCCGTGGTAAAGAGT	ACTCTTCACCGACGGGTGCCAC
3179	CGTGAATGCCAACAGTTAAGT	ACTTAACTGGTTGGCATTGACCG
3180	TGCGTATTGCATGCTCACAGCTG	CAGCTGTGAGCATGCAAATACGCA
3181	CGCAGTTGGTTGTGCACGGCTGC	GCAGCCGTGCACAAACCAACTGCG
3182	GTTCCTCCGTGAAAAGTGGCATCG	CGATGCCAGTTTCACGGAAAAAC
3183	ACAGGTTCCACCACGATTGA	TCAAATCGTGGGGAGGAACCTGT
3184	CTAGCGCGCTTTAGGTCTTGC	CGCAAGGACCTAAAGCGCGCTAG
3185	CAAAATCAAAGGGATCAACCGGTG	CACCGGTTGATCCCTTGATTG
3186	AACGTAACCCAGTGAAGTCAGGCA	TGCCTGACTCACTGGGGTACGTT
3187	TCAACCGGTGCACTTAGAACGCC	GGCGTTCTAAAGTGCACCGTTGA
3188	ATCGCAAAGTTGCAGGCGAATACT	AGTATTGCGCTGCAACTTGCAT
3189	ATATGTCCCTGGGTGCTGCACAAAC	GTTGTGCAGCACCCAGGGACATAT
3190	TGGCACTTTGTAGTGCAGGTGG	CCACCGCAGCACTACAAAGTGCCA
3191	ACGCACGACGTCCCTCTAACGCTG	CGAGCTTAGAAGGACGTCGTGCGT
3192	CCCACGTGCACTATAGGGATTGCG	CGAAATCCCTATAGTGCACGTGGG
3193	CCCGCCTGGTCAGTCATCCTTGC	GCAAGGATGACTGACCAAGCGCGG

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Cont'd

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3194	AGCGGCTCAGGGAAATAACACAGG	CCTGTTGTTATTCCCTGAGCCGCT
3195	ACAACCGCATCGGAGGCAACCAGT	ACTGGTTGCCTCCGATCGCGTTGT
3196	AGCAATTGCCTCCGTAGAAACCCA	TGGGTTCTACGGAGGCAATTGCT
3197	GAGTCGTGGCATGCCCTGCTATCG	CGATAGCAGGGCATGCCACGACTC
3198	TCTATGCAAATACTGCCTTGCAG	TCGCAAGCGCAGTATTGCATAGA
3199	TCAGCTTAAGTTACGGTGTGGCG	CGGCCACACCGTAACTTAAGCTGA
3200	TCCAAGGTGAAACAGGGATCAGAA	TTCTGATCCCTGTTGACCTTGGA
3201	GTTAGGCTGGCGTCAATAGCGCTT	AAGCGCTATTGACGCCAGCCTAAC
3202	GGTGTCTAAAGGAAGAGGGCATCG	CGATGCCCTCTCCTTATGACACC
3203	CCGGCGGGCTAGATCAATATTCT	AGAAATATTGATCTAGCCCGCCGG
3204	CTAACGTCAAGTTTACGCCCGA	TCGGGGCGTAAAACCTGACGTTAG
3205	GCAGCACAGTTTCCGATTGCGG	CCGCAAATCGGAAAACGTGCTGC
3206	CGCACGCAAGGGAGGGATGACTG	CAGTCATCCCTCCCCCTGCGTGCG
3207	CGGGGCCGAAAAGGACGTACAAG	CTTGTGACGTCTTTGGCCCCCG
3208	TTCTCCAACACGGCTAACCGGTAG	CTACCGTTAGCCGTGTTGGAGAA
3209	TTACAGCCTGGCCCAGGTAGTTG	CAACTACCTCGGGCCAGGCTGTAA
3210	TTTCGGGCAGCATGAGTTATCGAA	TTCGATAACTCATGCTGCCGAAA
3211	CTACTGGACGCCCTGCTCGAAGT	ACTTCGAAGCAGGGCGTCCAGTAG
3212	GGTCGTCCGACGTAAAAGACCAA	TTGGTCTTTACGTCGGACGACC
3213	GTTTCGAGCTTTCTCCGAGG	CCTGCGGAGAAAGAGCTCGAAAAC
3214	GCGTAAGGTACCCAGTGTACAG	CTGTGACACTGGGTACCTCACGC
3215	TTTCTGAACGCTTCGACGCAACAC	GTGTTGCGTCAAGCGTTAGAAA
3216	TGCTAATAAGCACGCCCTAGCCCCT	ACGGGCTAGGCGTGCTTATTAGCA
3217	AAATTAAATTGTGGTGGCTCCGGCG	CGCCGGAGCCACCACAATTAAATT
3218	TTACAATCCTCGGGCTCACTGACA	TGTCAGTGAGCCCAGGATTGTAA
3219	GCTGAAGGACAAGGCAGGGCAAC	GTTGCCACGCCCTGTCCTTCAGC
3220	GGGATAGGAGACCCCTCGCAATGGT	ACCATTGCGAGGGCTCCTATCCC
3221	TTGCAGTACGTCTTGCATGAA	TTCATGCGCAAGGACGTACTGCAA
3222	TTGATCACTGGATTGGGTGCGAAC	GTTCGCACCCAATCCAGTGTCAA
3223	TCTGCAGACGTTGCAGAGATGAT	ATCATCTCGCAACGTCTGCAGA
3224	AGTCTAGCAGGGATCGAAGCGGAT	ATCCGCTTCGATCCCTGCTAGACT
3225	GGGGTCCCGCAACAACTAATGAAG	CTTCATTAGTTGTTGCGGGACCCC
3226	CAACCTTTATGTGGTGTGCGCA	TCGCGCACACCACATAAGAGGTTG
3227	CTCGCTGGGTTGCTGGAGTAGCAC	GTGCTACTCCAGCAACCCAGCGAG
3228	CGTTGTATTGTGCAACGCGAAGTT	AACTTCGCGTTGCACAATACAACG
3229	GGGCTCAAAGTGCCTGAGTCGAAA	TTTCGACTCAGGCACCTTGAGCCC
3230	CTGCTGTGCCCTCTCAGTGAGAGC	GCTCTCACTGAGAGGGCACAGCAG
3231	CGGACGTACTGTTGGAGTCCTCA	TGAGGACTCCGAACAGTACGTCCG

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AG  
cont'd

3232	GTATACCACCATACGGGACCGCA	TGCGGTCCCGTATGGTGGTATAC
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Please replace the table starting on page 217, line 1, with the following rewritten table:

TABLE 3

Seq. ID No.	Decoder Sequence (5'-3')	Probe Sequence (5'-3')
1	TTCGCCGTCGTAGGCTTTCAA	TTGAAAAGCCTACACGACGGCGAA
18	GTTCCCAGTGAAGCTGCATCTGG	CCAGATCGCAGCTTCACTGGGAAC
19	TACTGGCATGGAATCCCTTACGC	GCGTAAGGGATTCCATGCCAAGTA
20	ACTAGCATATTCAGGGCACCGGC	GCCGGTGCCCTGAAATATGCTAGT
21	GAACGGTCAATGAACCCGCTGTGA	TCACAGCGGGTCTATTGACCGTTC
22	GCGGCCTTGGTTCAATATGAATCG	CGATTCATATTGAACCAAGGCCGC
23	GATCGTTAGAGGGACCTGCCCGA	TCGGGCAAGGTCCCTCTAACGATC
24	TGGACCTAGTCGGCAGTGACGAA	TTCGTCACTGCCGGACTAGGTCCA
25	ATAAACTACCCAGGACGGCGGAA	TTCCGCCGTCCTGGGTAGTTAT
26	CATCGGTTGCCCAATCCAGATA	TATCTGGATTGGCGCGAACCGATG
27	GTCGGGCATAGAGCCGACCCCT	AGGGTGGTCCGCTCTATGCCCGAC
28	CTTGGGTCATGATTACCGTGCTA	TAGCACGGTGAATCATGACCCAAG
29	TGCCTAACGTGCTAATCAGCAGCG	CGCTGCTGATTAGCACGTTAGGCA
30	CGCATGTTGGAGCATATGCCCTGA	TCAGGGCATATGCTCCAACATGCG
31	AGCCACTGCATCAGTGCTTTCAA	TTGAACAGCACTGATGCAGTGGCT
32	GGTTGTTTGAGGCGTCCCACACT	AGTGTGGACGCCTAAAACAACC
33	TCGACCAAGAGCAAGGGCGGACCA	TGGTCCGCCCTGCTCTTGGTCGA
34	GACATCGCTATTGCGCATGGATCA	TGATCCATGCGCAATAGCGATGTC
35	GAAATACGAAGTCTGCGGGAGTCG	CGACTCCCGCAGACTTCGTATTTC
36	TGTATGAATGATTGATCGCGCA	TCGCGCGATCAATCATTGACAA
37	ATATCGGGATTGTTCCCGGTGAA	TTCACCGGGAACGAATCCCGATAT
38	GCGAGCGTACCGAAGGGCTAGAA	TTCTAGGCCCTCGGTACGCTCGC
39	TTACCGGCAGCGGACTCCGAATT	AATTCGGAAGTCCGCTGCCGGTAA
40	GTAATCGAGAGCTGCGCGCCGTCT	AGACGGCGCGCAGCTCTCGATTAC
42	CCTGTTAGCGTAGGCGAGTCGATC	GATCGACTGCCCTACGCTAACAGG
43	TAGCGGACCGGCAGAATGAGTTCC	GGAACTCATTCTGCCGGTCCGCTA
44	GGTACATGCACTACGCGCACTCGG	CCGAGTGCAGCTAGTGCATGTACC
45	AATTATCTCGGACTCCCGGGTA	TACCGCGGGAGTCCGAGATGAATT
46	GCCAAATCTGGATTGGCAGGAATG	CATTCTGCCAATCCAGATTGGC

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47	TGCATTTGGTTGAGGCACATCC	GGATGTGCCTCAACCGAAAATGCA
48	CCGCTCAATTCAACCATGCTTCGCT	AGCGAAGCATGGTGAATTGAGCGG
49	CTCGGAAAGGTGCAACTTGGTGT	ACACCAAAGTTGCACCTTCCGAG
50	AATTGACCAAGCAGAACGTCCCAT	ATGGGACGTTCTGCTGGTCAATT
51	GCCAGAGTCTAACCTCACGGGAT	ATCCCGTGAGGTTGAGACTCTGGC
52	CCAACAACGGAACGGAACCCGC	GCAGGGTTCCCGTTCCAGTTGG
53	GAGAACTGATCGCTGAGGGGCATG	CATGCCCTCAGCGATCAGTTCTC
54	GGCACACTAGACTGTGGCACCGA	TCGGTGCCACAAGTCTAGTGTGCC
56	TCACATCCAAATATGGTCCCGCAA	TTCGCGGACCATATTGGATGTGA
57	GTCTGCCGGTGTGACCGCTTCATT	AATGAAGCGGTACACCCGGCAGAC
58	CATCGCAGAGCATAAACACCCCTCA	TGAGGGTGTATTGCTCTGCGATG
59	GTGGTATCTATGGCAGAGGCGGA	TCCGCCTCTGCCATAGATACCAAC
60	ACGAGGTGCCGCTGAGGTTCCATT	AATGGAACCTCAGCGGCACCTCGT
61	GGAATGAGTGGACCCAGGCACATT	AATGTGCCTGGGTCCACTCATTCC
62	TGTCAATATGCGTCCGTGTCGTCT	AGACGACACGGACGCATATTGACA
63	TGATGAGCCTCAGGGTACGAGGCA	TGCCTCGTACCCCTGAGGCTCATCA
64	CACCGCGGTGTTCCCTACAGAATGA	TCATTCTGTAGGAACACCGCGGTG
65	TTGTTGCCAATGGTGTCCGCTCGG	CCGAGCGGACACCATTGGCAACAA
66	TTAACCTGCGTCTGCCCTTCCT	AGGAAAGGGGCAGACGCAGGTTAA
67	AGGCGCGTCCCTGCCTTAGTGACG	CGTCACTAAGGCAGGAACGCGCCT
68	TAGGGCGATGGCACGAAGCTCAA	TTGAAGCTCGTGCCATGCCCTA
69	TGCATAGAGCCAAAGTCGGCGATG	CATGCCGACTTGGCTCTATGCA
70	TTGAGAGGCAGGTGGCCACACGGA	TCCGTGTGCCACCTGCCTCTCAA
71	TCCGCATTGTGAGAAAAACGAGC	GCTCGTTTTCTCACAATGCGGA
72	GGCGGTTCCGTAGCTATAGGTGC	GCACCTATAGCTACGAAACCGCC
73	GGTAAAATTCCGTAGCCACGGC	GCCCCGTGGCTACGAAATTTCACC
74	CCGACGGAGGATGAAGACAATCAC	GTGATTGTCTTCATCCCGTCGG
75	CCAGTTGCCCAATTGCCAAAA	TTTTGGCGAATTGGGCCAAACTGG
76	GGATCTATTAGGCCGTGCGCACAG	CTGTGCGCACGGCTAATAGATCC
77	CGGATGTCACCGTTGGACTTCA	TGAAAGTCAAACGGTGACATCCG
78	ATCGCAAATCCTGCTCGTCCCTAA	TTAGGGACGAGCAGGATTGCGAT
79	CAGGGCATGCAATAATCGAGGTC	GAACCTCGATTATTGCATGCCCTG
80	CATGCGTTGATATATGGGCCAAG	CTTGGGCCATATATCAACGCATG
81	CAGCTGCAGCTTGTGACCAACCAC	GTGGTTGGTCACAAGCTGCAGCTG
82	TTGTATGTCGCCGACCGGGCACC	GGTCGCCGGTGGCAGACATACAA
83	GATGGCGCCCGTTGATAGGTATGG	CCATACCTATCAACGGCGCCATC
84	ATGAGAATGCCGGCAATCTGCTA	TAGCAGATTGCCGGCATTCTCAT
85	ATTTGCACTGACCGCAGGCTCGTG	CACGAGCCTGCCGGCAGTGCACAAAT

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86	CAGGGAGAACGGTTAAGTCCCGT	ACGGGAACCTAACCGTTCTCCCTG
87	AGGCCGGCGATCGAGGAGTTGGT	ACCAAACTCCTCGATGCCGGCCT
88	ACACGGTGGTCTCTGATAGCGACC	GGTCGCTATCAGAGACCACCGTGT
89	GTGCAACGCCGAGGACTCCATCA	TGATGGAAGTCCTCGCGTTGCAC
90	TCGGTGCCTGATAGCCATTCCGAT	ATCGGAATGGCTATCAGGCACCGA
91	TGAAATACCAACACAGCCAATTGGC	GCCAATTGGCTGTGTGGTATTCA
92	GCATCGTGTACATGACTGCCCGA	TCGCGGCAGTCATGTACACGATGC
93	CAGTGTCTAACGGCGCGCTGAA	TTCACGCGCGCCGTTAGAACACTG
94	CGCTTGCAACGTTGCACCTACTCT	AGAGTAGGTGCAACGTTGCAAGCG
95	CGAAAAACTAGTGGGCTGCCGCG	CGCGCGAGCCCAGTAGTTTCG
96	CTTTCAGGGAACTGCCGGAGTCG	CGACTCCGGCAGTCCCTGAAAG
97	TTGTGGCCTTCTGTAAAGGCACG	CGTGCCTTACAAGAAAGGCCACAA
98	TCCACGAACGGCGACCCGTTGTCT	AGACAACGGGTCGCCGTTGTGGA
99	CGACCTTGCACGAAACCTAACGAG	CTCGTTAGGTTCGTGCAAGGTCG
100	GTGCAGCTTCACGAGCCAGCCTGA	TCAGGCTGGCTCGTGAAGCTGCAC
101	CGCTTCGTGCGAACAGACGATGA	TCATCGTCTATTGCAAGAAAGCG
102	TGCGCTTACAGGCTCCTAGTGGTC	GACCACTAGGAGCCTGTAAGCGCA
103	CACGCCCTAGTCGGATCGCATA	TATGCGATCGCGACTAACGCGTG
104	CGGAGGGAGGGAGCTAGCCTCGA	TCGAAGGCTAGCTCCCTCCCTCCG
105	GCATCCGGCCTGTTGATGACGCCT	AGGCATCAACAGGCCGGATGC
106	AGGCCAATCGATCTTATTGCCGAG	CTCGGAATAAGATCGATTGGCCT
107	CCTTCCAATGATTGCATACGCCCA	TGGCGTATGCAATCATTGGAAGG
108	AACACTTGATCAGGCCGGTCGTCT	AGACGACCCGCTGATCAAGTGT
109	TGGAATCAAGGCCGTAAAGGACAG	CTGTCCTTACGGCCTTGATTCCA
110	GCTCCCGTAACCTGTCCACCACTG	CACTGGTGGACAGGTTACGGGAGC
111	AGTGGTGAATGCCGCTACCCCTGA	TCAGGGTAGCGGCCATTCAACACT
112	TGTTGAAGCGAGCTAAACGCCA	TGGCCGTTTAGCTCGCTTAACA
113	CAGCGCTCCAGAATTGACAGCAAT	ATTGCTGTCAATTCTGGAGCGCTG
2	TTCGAAGCGCACGTCCCTTCAA	TTGAAAAGGGACGTGCGCTCGAA
3	AACCGGTGGGAATGGGACATCAA	TTGATGTCCCATTCCCCACCGCGTT
117	CACGAGATACCGCGTAAGGGTGG	CCACCCCTACGCCGGTATCTCGTG
118	CTACGGCAAACGTGTGGATGGGT	ACCCATTCCACACGTTGCCGTAG
119	GTAGGGCGATGACGGGCGAACTAC	GTAGTCGCCGTACGCCCTAC
120	AATCGACCTCCGCACACATTGCA	TGCGAATGTGTGCGGAGGTGATT
121	GAGTCAGCATGGCGCGGAGATT	GAATCTCCGCCCATGCTGACTC
122	AGATAAAGACGCTGGCAACACGGG	CCCGTGTGCCCCGCTTATCT
123	GGTACCTCAACGCGAACCAACTGT	ACAAGTGGTTCGCGTTGAGGTACC
124	AAGCGATGGCTACCCAAGAGCGAT	ATCGCTTTGGGTAGCCATCGCTT

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125	AGAGCTTATGCAGAACCAAGCGGCC	GGCGCCTGGTCTGCATAAGCTCT
126	ATCGGTCTACGCAGGGTGGATA	TATCCAACCCCTGCGTGAGACCGAT
127	TAGGTTGCCGCCAGAAGAACAT	ATGTTCTCTGGCGGGCAACCTA
128	CGGTGCTGTTGAAAAGCCTGTAG	CTACAGGCTTGCAACAGCACCG
129	TGATGAAAGTTGCGGCAGGACAC	GTGTCCTGCCGAAACTTCATCA
130	GTTGAGTGCAGGATGCAGCGATAG	CTATCGCTGCATCCTGCACTCAAC
131	AAACATTGCGCGGTCCACCAAGGGTT	AACCCTGGTGGACCGCGCAATGTT
132	GGGCAGTTAGAGAGGGCAGAAGT	ACTTCTGGCCCTCTAACTGCC
133	TCGAGCTGGTCCCCGTGAACGTGT	ACACGTTCACGGGGACCAGCTCGA
134	GTCTGGGGCCGCTTAGTGAAAA	TTTTCACTAAGCGGCCCAAGAC
135	ACTGTTGGCTTGCTCTCATGTCCA	TGGACATGAGAGCAAGCCAACAGT
136	AGGACCATTCGGAAGGCGAAGATA	TATCTCGCCTCCGAATGGTCCT
137	CTTGGGAGGCATCCGCTATAAGGA	TCCTTATAGCGGATGCCTCCCAAG
138	AATAAACGGAACGCACCGCTACAG	CTGTAGCGGTGCGTCCGTTATT
139	TTGTACGTGCGGTCCCCATAAGCA	TGCTTATGGGGACCGCACGTACAA
140	CGCACCAAACGTAGTTCCCAGAC	GTCTGGAAACTCAGTTGGTGC
141	ACCTGATCGTCCCCTATTGGAA	TTCCAATAGGGGAACGATCAGGT
142	GGAACAGAGGCCAGGGGACTGAGC	GCTCAGTCCCCCTGCCTCTGTTCC
143	CCCTGCCTGGCGTGTGGCTTAT	ATAAGCCGACACGCCAAGGCAGGG
144	ACTCTGACACGCCAACCTCCGAAG	CTTCCGGAGTTGGCGTGTAGAGT
145	CTGACGGTTTCATTGGCGTGCC	GGCACGCCGAATGAAAACCGTCAG
146	TGCGGTGGTTCATTGGAGCTGGCC	GGCCAGCTCCAATGAACCACCGCA
147	GCATGGCCAACTAGTGACTCGAA	TTGCGAGTCACTAGTTGGCCATGC
148	AGGCCGTAAGCGAATCTCACCTG	CAGGTGAGATTGCTTTACGGCCT
149	CGAATATTATGCCGAGAACCGCG	CGCGGATTCTCGGCATAATATTG
150	ACAGACGAGCTCCAACCAACATGA	TCATGTGGTGGAGCTCGTCTGT
151	GGACGGTTGTGCTGGATTGCTG	CAGACAATCCAGCACAAACCGTCC
152	AAAGGCTATTGAGTTGGTGGCG	CGCCCAACCAACTCAATAGCCTTT
153	GATGGCCTATTGGAGATCGGGCC	GGCCCGATCTCCGAATAGGCCATC
154	GATCCAGTAGGCAGCTCATCCCA	TGGGATGAAGCTGCCTACTGGATC
155	AATAACTCGCGGGGTATGCTTCT	AGAACGATACCCCGCGAGTTATT
156	GGAGGAGGTTGTCTGGAAAGCA	TGCTTCCGAGACAAACCTCCTCC
157	CTTGGTATGGCACATGCTGCCG	CGGGCAGCATGTGCCATACCAAAG
158	AGAAAGGCTCGAGCAACGGGAACT	AGTTCCCGTTGCTCGAGCCTTCT
159	AATCTACCGCACTGGTCCGCAAGT	ACTTGCAGGACCAACTGCGGTAGATT
160	CGTGGCGGCCACAGTTTGGAGG	CCTCCAAAACGTGGCCGCCACG
161	TTGCAGTTCAATCCATACGCACGT	ACGTGCGTATGGATTGAACGTCAA
162	GGCCCAAAGCCCCAGACCATTAA	TAAAATGGCTGGGCTTGGGCC

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163	CGCCTGTCTTGTCTCCGGACAAT	ATTGTCCGGAGACAAAGACAGGCG
164	TGAGGCAACAGGGGCCAAAAACTA	TAGTTTTGGCCCTGTTGCCTCA
165	AGCGGAAGTAGTCCTCGCTCGTC	GACCGAGCCGAGGACTACTTCCGCT
166	GGCCCCAAGGCTTAGAGATAGTGG	CCACTATCTCTAAGCCTTGGGGCC
167	GCACGTGAAGTTAACCGCGATT	GAATCGCGTTAAACTTCACGTGC
168	AGCGGCAGAACGTTCCGTGACGG	CCGTCAGGAACGTTCTGCCGCT
169	TCGTCGAGCAGACGAGATTGCACG	CGTCAATCTCGTCTGCTGACGA
170	TCTTGCCCGCTAAGTACTGCTT	AAGCAGTCAGTTACGCCGAAAGA
171	TTTATGTGCCAAGGGTTAACCGA	TCGGTTAACCCCTGGCACATAAA
172	TGTTACTGTGGTTACGGCAGTCC	GGACTGCCGTGAACCACAGTAACA
173	CGCGCCTCGCTAGACCTTTATTG	CAATAAAAGGTCTAGCGAGGCGCG
174	ACAAATGCGTGAGAGCTCCAACT	AGTTGGAGCTCTCACGCATTGT
175	CGCGCAGATTATAGACCCGAATGT	ACATTGGGTCTATAATCTGCCGCG
176	CAAATAACGCCGCTGAATCGCGT	ACGCCGATTAGCGGGCTTATTG
177	CCTTCGTGCATCGGTGATGATGTT	AACATCATACCGATGCACGAAGG
178	TGAACACGAGCAACACTCCAACGC	GCGTTGGAGTGTGCTCGTGTCA
179	CAGCAGATCCTCGTAGCGGTCGT	ACGACCGCTACGAAGGATCTGCTG
180	GGAACCTGGTGAAGTTGTGCCTCAT	ATGAGGCACAACCTCACCAAGGTTCC
181	TCATAAGCGACAATCGCGGGCTTA	TAAGCCCGCGATTGTCGCTTATGA
182	CCCAACGTCACTGAAGCTCACAGT	ACTGTGAGCTTCAGTGACGTTGGG
183	TGTCAGAGCCCGCGACTCAGACGG	CCGTCAGTCGCGGGCTCTGACA
184	TACACGAAGCCTCTCCGTGGTCCA	TGGACCACGGAGAGGGCTCGTGT
185	CTCAGAAGTCCTCGGCGAACTGGG	CCCAGTTGCCGAGGACTTCTGAG
186	ATCCTTTATCTACTCCGCGGCGA	TCGCCCGGGAGTAGATAAAAGGAT
187	AGGCGTGCAGCAACAGGATAAAC	GGTTTATCCTGTTGCTGCACGCC
188	ACTCTCGAGGGAGTCTCTGGCACA	TGTGCCAGAGACTCCCTGAGAGT
189	TTGCCAGGTCCATCGAGACCTGTT	AACAGGTCTCGATGGACCTGGCAA
190	TCCACTATAACTCGGGTCCGTGT	ACACGGACCCGAGTTATAGTGG
191	GCCCAGTCGGCTCTAACAGTTG	CGAACTTGTAGAGCCGACTGGGC
192	CGGAACGGATAATCGCGTCAGGT	ACCTGACGCCGATTATCCGTTCCG
193	AAAATAAGCGCCTGGCGGGAGGA	TCCTCCCGCCAGGCGCTTATTITA
194	GCGCACTCGTAAACCTTCTCGC	GCGAGAAAGGTTACAGAGTGC
195	AGTTGCCAGGTACTGGCAAGTGC	GCACCTGCCAGTACCTGGCAAAC
196	ACAACGAGGGATGTCCAGCGGCAT	ATGCCGCTGGACATCCCTGTTGT
197	TTCGCAGCACCCCTAGGTACAGT	ACTGTACCTAGCGGGTGCTGC
198	TAACCCGATTTGCGACTCTGCC	GGCAGAGTCGAAAAATCGGGTTA
199	CGTCGCATTGCAAGCGTAGGCTG	CAAGCCTACGCTTGCAATGCGACG
200	GAGCTGACGTCACCATCAGAGGAA	TTCCCTGATGGTACGTCAGCTC

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201	GGAGGCTGGGGTCGCGCTTAAGT	ACTTAAGCGCGACCCCCAGCCTCC
202	TTGTGGAACCGCACTAGCTGGCT	AGCCAGCTAGTGCAGGTTCCCACAA
203	CCCTCGCACTGTGTTACCCCTTT	AAGAGGGTGAACACAGTGCAGGG
204	TCATTGACTCGAATCCGCACAACG	CGTTGTGCGGATTGAGTCAATGA
205	ACAGGGGTTGCCCTCGTACGTAC	GTACGTACGAAGGCCAACCCCTGT
206	AGGCCGTGCAACATCACACAGGAT	ATCCTGTGTGATGTTGACGGCCT
207	GGGCCGTGGTACGTAATATTGGC	GCCAATATTACGTGACCACGGCCC
208	GCGCGGACATGAAACGACAAGGCC	GGCCTTGTGCTTCATGTCCGCGC
209	CTTATTGGGTGCCGGTGTGGATT	AATCCGACACCGGACCCAATAAG
210	GGGGCGGTTACCAAAAAATCCGAT	ATCGGATTTTTGGTAACCGCCCC
4	CCGTCGCATACCGGCTACGATCAA	TTGATCGTAGCCGGTATGCGACGG
5	ATGGCCGTGCTGGGACAAGTCAA	TTGACTTGTCCCCAGCACGGCCAT
213	ACGAAAAAAAGTGTGCGGATCCCCT	AGGGGATCCGCACACTTTTCGT
214	CCAAGTACACCGCACGCATGTTA	TAAACATGCGTGCAGGTACTTGG
215	ATCGTGCCTGGAGTGTGCATCTA	TAGATGCGACACTCCACGCACGAT
216	TCCAGATACCGCCCCGAACCTTGA	TCAAAGTTGGGGCGGTATCTGGA
217	TCTGCTGGCAGCACGTGAAGTGGC	GCCACTTCACGTGCTGCCAGCAGA
218	TTGAAATTGCTCTGCCGTAGTC	TGACTGACGGCAGAGCAATTCAA
219	AGTCAGGCGAGATGTTAGGCAGC	GCTGCCTGAACATCTGCCCTGACT
220	ACAAGCCGACGTTAACCCGCCA	TGGGGGGCTTAACGTCGGCTTGT
221	CCCTAATGAGGCCAGTAACCTGCA	TGCAGGTTACTGGCCTATTAGGG
222	GTGAGACACACATCCCTCCAATG	CATTGGAGGGGATGTGTCTCAC
223	CGACGGATGCAGAGTTAGTGGTC	GACCACTGAACCTGCATCCGTCG
224	CCCGCATGCCTGGCGGTATTACAA	TTGTAATACGCCAGGCATGCGGG
225	TTAGCAAAGCGGCCGCTAGCAA	TTGCTAACGGGCCGCTTGCTAA
226	CCCGACACGGGTAGCGTAATAAT	ATTATTACGCTGACCCGTGTCGGG
227	GCGACGGCCCTGAGGTATGTC	GACGACATACCTCAGGCCGTCGC
228	CAAAAGTGTGTTCCCTGCGCTTG	CAAGCGCAAGGAAACACACTTTG
229	TCTCGAACAGCCCCGTTATTG	CAATAACCGGGCTGTGCTCGAGA
230	ATGCTAACCGTTGGCCATGGAAC	AGTTCCATGGCCAACGGTTAGCAT
231	CTTGCAGGTGTTAGCCAGCGGT	ACCGCTGGCTAACACTCCGCAAG
232	TGCTCCCTAGGCCGCTGGAGGAGT	ACTCCCTGCCAGCGCTAGGGAGCA
233	CCAATGCCCTTGAGTAAGCGATGG	CCATCGCTTACTCAAAGGCATTGG
234	AGCAGATAACGTCCTAACGACGCC	GGCGTCATTGGGACGTTATCTGCT
235	TTGACCATTACGTGTTGCCCAT	ATGGGCAGAACACGTAATGGTCAA
236	TCGCGTATTGCGGAATTGCGTCTG	CAGACGAATTCCGAAATACGCGA
237	CTGCGTGTCAACAATGCCCCGAG	CTGCGGGACATTGTTGACACGCAG
238	TCTGGTGCCACGCAAGGTCCACAG	CTGTGGACCTTGCCTGGCACCAGA

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239	CTCCGGGAGGTCACTTAATTGCGG	CCGCAATTAAAGTGACCTCCGGAG
240	TTTCGTGATTGCCGGAGGAGGC	GCCTCCTCCGGCAATCACGAAAA
241	TCGGGATGTAGCTGGGCTACCGG	CCGGTAGCCCCAGCTACATCCGA
242	CGAGCCAACGCAAACACGTCTTG	CAAGGACGTGTTGCGTTGGCTCG
243	GCAAAGCCTTGTGGGCGGTAGT	ACTACCGCCCCACAAAGGCTTG
244	ATTCGACCGGAAATGAGGTCTCG	CGAAGACCTCATTCGGTCGAAT
245	TTCGCTTGCTGAGTTGCTGTTC	GAACAGAGCAACTCAGCAAGCGA
246	CGCGTGAAGACCCCATTCCGAGT	ACTCGGAATGGGTCTTCACGCG
247	AACCGTATTGCGGGTCACTTGTGG	CCACAAGTGAACGCGAATACGGTT
248	GGGGCCAACCCTTCGAGGCGTAT	ATACGCCCTGAAACGGTTGGCCCC
249	TCGGCTGGCAGTCCAAACGGCTT	AAGCCGTTGGACTGCCAGCCGAA
250	GGGTGTGGTTAGAATGACGGTTC	GAACCGTGCATTCTAACACACCC
251	GCGAGGACCGAACTAGACAAACGG	CCGTTTGTCTAGTTCGGTCTCGC
252	ACGCACCGCGTACCGAACGTTGCTG	CAGCAACTTCGGTCACCGTGC
253	AAAAGGTCGCTTGAAGGGGGA	TCCCCCTTCAAAGCGACCTTTA
254	TGCGATCGCTAACTGCTGGGACAA	TTGTCAGCAGTTAGCGATCGCA
255	GGAGGTATAAGCGGAGCGGCCTCA	TGAGGCCGCTCCGCTTACCTCC
256	ATGCTGACATGTCGTGACCTCGT	ACGAGGTGCACGACATGTCAGCAT
257	TGTGGTTAAAGCGTCCGTTAACG	CGTTGAACGGACGCTTAACCACA
258	CGTTCACACCGGGCGTAAGCTGCGT	ACGCAGCTTACGCCGGTGTGAACG
259	CCTATCCGGCGAGAACTTCTGTG	CACAGAAGTTCTGCCGGGATAGG
260	GTCTGCACTCACCGACGGAGGGGA	TCCCTCCGCTGCGTGAGTGCAGAC
261	GCACGAGTTGGTGCTGGCAGATT	AATCTGCCGAGCACCAACTCGTGC
262	AACGTCGACGACACACGTTGTC	GACGAACGTGTGCGACGTT
263	ATGCGCGCTTATCCTAGCATGGTC	GACCATGCTAGGATAAGCGCGCAT
264	TCACGTTTCGTCGACATGAGG	CCTCATGTCGAGACGAAAACGTGA
265	TGTGCCTCATCCTTAGGATACGGC	GCCGTATCCTAAGGATGAGGCACA
266	AGGTGGTGTGGGTCAACCGCTTA	TAAAGCGGTTGACCCACACCACCT
267	CTGGATCGAAGGGACTGCAAGCTC	GAGCTTGCAGTCCCTCGATCCAG
268	TAGATCAACTCGCGTACGCATGGA	TCCATGCGTACGCGAGTTGATCTA
269	GATCCTGCGGAGAAGAGAGTGCAG	CTGCACTCTCTCCCGCAGGATC
270	TACGTGTGGAGATGCCCGAACCG	CGGTTGGGGCATCTCCACACGTA
271	GCGCTATGTCAATCGTGGCGTAG	CTACGCCACGATTGACATAGCGC
272	AGCGAGGTTCTAGCGTCGACACC	GGTGTGACGCTAGAAACCTCGCT
274	ACCCAGGTTTGCCGTTGGAAT	ATTCCACAAACGGCAAAACCTGGGT
275	CCCTGTTAACGGCTGCGTAGTCTC	GAGACTACGCAGCCGTTAACAGGG
276	AGGCCGATTCACCCGCCAATTGC	GCAATTGGCGGGTGAATCGGCCT
277	GAGCCCTCACTCCTGCCCTTGA	TCAAAGGGCAAGGAGTGAGGGCTC

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278	GGGTGGACATCCGCCTCGCAGTCA	TGACTGCGAGGCGGATGTCCACCC
279	GATGGCTGAGAACCGTGTACGAT	ATCGTAGCACGGTCTCAGCCATC
280	TCGACGTTAGGAGTGCTGCCAGAA	TTCTGGCAGCACTCCTAACGTGCA
281	CGAATGGGTCTGGACCTTGCATAG	CTATGCAAGGTCCAGACCCATTG
282	GTGCACCAGACATTGAACTCGGA	TCCGAGTTGAATGTCTGGTGCAC
283	AGAGGCCCGTATATCCCACCAT	ATGGATGGGATATACGGGGCCTCT
284	AACGCCCTGTTAGAGCATCAGCGG	CCGCTGATGCTCTGAACAGGCGTT
285	AAGGCTCAACACGCCATTGTGCGC	GCGCACATAGGCGTGTGAGCCTT
286	AGTCCTGTTGCCAGATTGGCTCG	CGAGCCAATCTGGCAACACGGACT
287	ATGTCCCATGTAAAGACGCGTGTG	CACACGCGTCTTACATGGGACAT
288	ATGGAGTCTGCTCACGCCAAAGG	CCTTGGGCGTGAGCAGACTCCAT
289	CGGCCTCCAACAAGGAGCACTAAC	GTTAGTGCTCCTTGTGGAGGCCG
290	CAGAGCCGTGGAACATTGCGAGC	GCTCGCAATGTTGCCACGGCTCTG
291	TCATTTGAATGAGGTGCGCACCGG	CCGGTGCGCACCTCATTCAAATGA
292	GACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
293	ATGCGAGCAATGGGATCCGGATTC	GAATCCGGATCCCATTGCTCGCAT
294	AGAGTGAGGCCTCCCTGACCACTG	CACTGGTCAGGGAGGCCTCACTCT
295	CGCACCGTAAGTAGATTGCCCGC	GCGGGCAAATCTACTTACGGTGC
297	TGAACCTTTGAGCACGTCGTGCGC	GCGCACGACGTGCTCAAAGGTTCA
298	TCCGCCTTTGGTTACCTCGAAG	CTTCGAGGTAAACAAAAAGGCGGA
299	GAACGCCAACGGCACTAACACATC	GATGTGTTAGTGCCGTTGGCGTTC
300	CCGACAGCAGCCAAGACGTCCCAG	CTGGGACGTCTGGCTGCTGTCGG
302	CATAAAAAACCTGGGCTCTGCG	CGCAGAGCCCCAGGTTTTTATG
303	TGCCAACTGTGCAAGACCGGACTTA	TAAGTCCGGTCTGCACAGTTGGCA
304	GGCGAAAGAGCGAAACCGGCTCGT	ACGAGCCGGTTTCGCTTTGCC
305	GGGATGCGTATTTAGCGAACACG	CGTGTGCTAAAATACGCATCCC
306	TGGGATTCAAGCGACCAGTACCGA	TCGCGTACTGGTCGCTGAATCCA
307	CCCGATATCGCCCGGCCTATTG	CGAATAGGCCGGCGAATATCGGG
308	CGAGAAAGATGCCCTACGCAACCAA	TTGGTTGCGTGAGGCATCTCTCG
309	AACCTTGACCGTGGATGACGCTA	TAGCGTCATCCACGGGTCAAGGTT
6	TTGCAACGGGCTGGTCAACGTCAA	TTGACGTTGACCAAGCCGTTGCAA
7	CGCATAGGTTGCCGATTCGTCAA	TTGACGAAATCGGCAACCTATGCG
312	GCTTCCGGATGAACGGGATGGTTG	CAACCATCCCGTTCATCCGGAAAGC
313	CCCTCCATGTTCTCGAACGGTTT	AAACCGTTCGAAGAACATGGAGGG
314	TTGATGGCGGGCAATGCTCTTGCT	AGCAAGAGCATTGCCGCCATCAA
315	ATTGTGAGATGCCAAATTCCCC	GGGGAATTGGCGCATCTCACAAT
316	TCAGCACAGCCAGACGGTCAACTT	AAGTTGACCGTCTGGCTGTGCTGA
317	ACTCCACTCCTCGGTGGCAAAC	TAGTTGCCACCGAGGAGTGGAGT

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318	TCTGGGCATGCCTGGACGGAGACG	CGTCTCCGTCCAGGCATGCCAGA
319	TCTCAACTCCGGTACGACGAAACA	TGTTTCGTCGTACCGGAGTTGAGA
320	TTGCGTGGTCAAAGGCGAACGTG	CACGTTGCCCTTGACCACGCAA
321	AGACAGCGATCCGCGGCTCATGAT	ATCATGAGCCGCGGATCGCTGTCT
322	CGCGTCTCTAACTGAGAGCAGCCA	TGGCTGCTCTCAGTTAGAGACGCG
323	AGGCGCACATGTACGGACATTAG	CTGAATGTCCGTACATGTGCGCCT
324	GATGAGTGGCACGTGGTGTAA	TTACACACCAGTGCCTACTCATC
325	TGATCCATATTGTCGGACGTTGCG	CGAACCGTCCGACAATATGGATCA
326	ACCTGCCGGGAGTTCATAGGCTAG	CTAGCCTATGAACTCCGGCAGGT
327	AGCATTGGCGTTTCCGCAACGA	TCGTTGCGGAAAAACGCCAATGCT
328	GGTAATATTCAAGCGCGACCGCTCA	TGAGCGGTGCGCTGAATATTACC
329	ATAGCGTACGACGAGGTGACGCGC	GCGCGTCACCTCGTACGCTAT
331	TAGGTACGATGCGTTGACGCTA	TAGCGTCAAACGCATCGTGACCTA
332	ACTGCCGTACCTCTGGTTCTGGC	GCCAGAACCAAGAGGTACGGGAGT
334	CCTTGCCCTGAAGTTGCGTAGC	GCTACGACAACCTCAGGCCAAAGG
335	GTGCCAACGAGCGTATCGTTGA	TACAACGATACGCTCGTGGGCAC
336	AGGCGCTACGTGGCCTGGAGCAA	TTGCTCCAGGCCACGTAGCGCCT
337	GGGTGCTACCATTGCATTAGTCCG	CGGACTAATGCAATGGTAGCACCC
338	ACCACGCGCGTACGTGTAACCGAG	CTCGGTTACACGTACGCGCGTGGT
339	CCATGATGCATTGGGTGCATTTAG	CTAAATGCACCCAATGCATCATGG
340	GGTCCGGCCCTACGAAACGTTCGA	TCGAACGTTCGTAGGGCCGGACC
341	CCGTGTGGCTGGAGATTGCGTAGA	TCACACGAATCTCCAGGCCACACGG
342	GTTAGGGCGACGCATATTGGCACA	TGTGCCAATATGCGTGCCTAAC
343	GGGTCAAGTCAGGTGCGTTAGGATC	GATCCTAACGCACCTGACTGACCC
344	GCCGTGAAGTCGAATGCAGATCGA	TCGATCTGCATTGACTTCACGGC
345	GCCACCACCCAGTCATTAGGTA	TACCTGAATGCACTGGTGGTGGC
346	GAGCTTAGTTGCGGTATCGGGC	GCCCGATGACCGCAAACATAAGCTC
347	TGTTTGCAGCCATTAGGGAGTAAC	GTTACTCCCTAATGGCGGCAAACA
348	GCTCCGCTGGATGTGCCGGTTAG	CTAAACCGGCACATCCAGCGGAGC
349	CGGTAGCATGCGAGATCCCTGTTA	TAACAGGGATCTGCATGCTACCG
350	CTACGCTCTACCAGTTGCCGTGCA	TCGCAGGCAACTGGTAGAGCGTAG
351	GTGCCCTCTGCTGTATTGCCAAG	CTTGGCAAATACAGCAGGAGGCAC
352	TTGCGACTCGACTTGGACGGAGTAG	CTACTCGTCCAAGTCGAGTCGCAA
353	TCTGGGAGCTTTACTCCAGCCA	TGGCTGGAGTAAACAGCTCCAGA
354	TGCACCGGAACCTCCCTTACCAT	ATGGTAAAGGGAGTTCCCGCGTGC
355	TGGCAGCAAATGAATCGAAAGCAC	GTGCTTCGATTCAATTGCTGCCA
356	AACTGGTGACGCGGTACAGCGAAG	CTTCGCTGTACCGCGTCACCAAGTT
357	AGACGATTACGCTGGACGCCGTCG	CGACGGCGTCCAGCGTAATCGTCT

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358	ATGCCCTCCTTCATGGAAAGGGTT	AACCCCTTCCATGAAGGAGGGCAT
359	ATTCTCGGAGCGTATGCGCCAGAA	TTCTGGCGCATACGCTCCGAGAAT
360	ATAGCGGAGTTGGTACGCGAAC	GTTCGCGTACCCAAACTCCGCTAT
361	ACCTACGCATACCGCTTGGCGAGG	CCTCGCCAAGCGGTATGCGTAGGT
362	GATTACCTGAATGGCCAAGCGAGC	GCTCGCTTGGCCATTCAAGGTAATC
363	CCTGTTAGCATCACGGCGCTTAGG	CCTAAGCGCCGTATGCTAACAGG
364	CGGAATGATGCGCTCGACAACGCT	AGCGTTGTCGAGCGCATCATTCCG
365	TGAGAGAGGCCTGGTTAAGGCAA	TTGCCTTAACCAACGCCCTCTCTCA
366	AAGCAGGCGAAGGGATACTCCTCG	CGAGGAGTATCCCTCGCCTGCTT
367	TCACGACAGACGGGCCGAGATTAC	GTAATCTCGGCCGTCTGCGTGA
368	AAGCAATTGGCCTCGTTTGTA	TCACAAAACGAGGCCAAATTGCTT
369	GCTGGTTGCGGTAGGATCGCATAT	ATATGCGATCCTACCGCAACCAGC
370	TTGTGAATCCGTTCTGTCCCCGAC	GTCGGGGACAGAACGGATTACAA
372	TGGGCTCCTCTGAGGCGAGATGGC	GCCATCTCGCCTCAGAGGAGCCC
373	GGATAGAGTGAATCGACCGGCAAC	GTTGCCGGTCGATTCACTATCC
374	TGCACCGAACGTGCACGAGTAATT	AATTACTCGTGCACGTTGGTGCA
375	GCCAGTATTCTCGGGTGGACG	CGTCCAACACCCGAGAATACTGGC
376	TCGCTACCTAACGACCGGGCATAAC	GTATGGCCCGGTCTTAGGTAGCGA
377	TGGCATTGACGAGCAGCAGTCAGT	ACTGACTGCTGCTCGTCAATGCCA
378	CGCGTCCCAGCGCCCTGGAGTAT	ATACTCCAAGGGCGCTGGACGCG
379	ATGAAGCCTACCGGGCGACTTCGT	ACGAAGTCGCCCGGTAGGCTTCAT
380	CCAGACAGATGCCCTGGAACCATG	CATGGTTCCAGGCCATCTGTCTGG
381	TGGCGTGGGACCATCTCAAAGCTA	TAGCTTGAGATGGTCCCACGCCA
382	CCGCATGGAACACGTGTCAAGGT	ACCTTGACACGTGTTCCCATGCCG
383	GCCCACTCGTCACTGGACGTAAT	ATTACGTCCAGCTGACCGAGTGGC
384	ATTACGGTCGTGATCCAGAAAGCG	CGCTTCTGGATCACGACCGTAAT
385	TGCGAGGTGAGCACCTACGAGAGA	TCTCTCGTAGGTGCTCACCTCGCA
386	GGGCCGCATTCTTGATGTCCATT	GAATGGACATCAAGAACGCGGCC
387	CCTCGGATGTGGCTCTCGCCTAG	CTAGGCGAGAGGCCACATCCGAGG
388	TAGGCATGTTGGCGTGAGCGCTAT	ATAGCGCTCACGCCAACATGCCA
389	CGATACGAACGAGGGATGTCCGCCT	AGGCGGACATCCTCGTTCGTATCG
390	TACGCCGGTTAGCACGGTGCCTA	TAGCGCACCGTGCTAACCGCGTA
391	CATACGATGTCCGGGCCGTGCGC	GCGACACGGCCGGACATCGTATG
392	ATCCGCAGTTGTATGGCGCTTAT	ATAACCGGCCATACAACACTCGGGAT
393	GGGTAAGGGACAAAGATGGGATGG	CCATCCCACCTTGTCCCTTACCC
394	ATTGGAGTGTTGGTAATCCGC	GCGGATTACCAAAACACTCCAAT
395	GAACCGAGCCAACGTATGGACACG	CGTGTCCATACGTTGGCTCGGTT
396	GCCGTCAAGCTTAAGGTTGGC	GCCCAAAACCTTAAGCTTGACGGC

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397	ACCTGCTTTGGGTGGGTGATATG	CATATCACCCACCCAAAAGCAGGT
398	AATCGTGGGCGCAGCAAACGTATA	TATACGTTGCTGCGCCCACGATT
399	GTCGCCGGATTGCTCAGTATAAGC	GCTTATACTGAGCAATCCGGCGAC
400	ACCCGTCGATGCTTCCTCCTCAGA	TCTGAGGAGGAAGCATCGACGGGT
401	ATCCGGGTGGCGATAACAAGAGAT	ATCTCTGTATCGCCCACCCGGAT
402	TTCCGCATGAGTCAGCTTGAAAAA	TTTCAAAAGCTGACTCATGCGGAA
403	GCAAAGTCCCCTGGCAAGCCGAT	ATCGGCTTGCCAGTGGACTTTGC
404	CGACCTCGGCTTCATCGTACACAT	ATGTGTACGATGAAGCCGAGGTCG
405	CTCATGAGCGCAGTTGTGCGTGAG	CTCACGCACAACCTGCCTCATGAG
406	CAGATGAAGGATCCACGGCCGGAG	CTCCGGCCGTGGATCCTTCATCTG
407	TCAAAGGCTTGGATACAGCCGT	ACGGCTGTATCCAAGAGCCTTGA
408	TCCGCTAATTCCAATCAGGGCTC	GAGCCCTGATTGAAATTAGCGGA
8	CCGTTGCGGTGTCGTCCTGCTCAA	TTGAGCAAGGACGACCGCAAACGG
9	TTCGCTTCGTGGCTGCACTTCAA	TTGAAGTGCAGCCACGAAAGCGAA
411	CTTAGTTGGGCGCGGTATCCAGA	TCTGGATAACCGCGCCCCAACTAAG
412	GCTCTAATGCCGTGGAGTCGGAAC	GTTCCGACTCCACGGCATTAGAGC
413	CCGATTACAAATTGACTGACCGCA	TGCGGTCAAGTCATTGTAATCGG
414	AGACGTACGTGAGCCTCCGTGTC	GACACGGGAGGCTCACGTACGTCT
415	AATGGAGCGATACGATCCAACGCA	TGCGTTGGATCGTATCGCTCCATT
416	GGAGGGCGCTGTACTGATAGGCAGTA	TACGCCCTACAGTACAGCGCCTCC
417	TGTTTTGAATTGACCACACGGGA	TCCCGTGTGGTCAATTAAAAACA
418	CATGTCTGGATGCGCTCAATGAAG	CTTCATTGAGCGCATCCAGACATG
419	GCCCGCTAATCCGACACCCAGTT	AAACTGGGTGTCGGATTAGCGGGC
420	CCATTGACAGGAGAGCCATGAGCC	GGCTCATGGCTCTCCTGTCAATGG
421	GAATCACCGAATCACCGACTCGTT	AACGAGTCGGTATTGGTGATTTC
422	AACCAGCCGCAGTAGCTTACGTG	CGACGTAAGCTACTGCGGCTGGTT
423	TTTCTGAGGGACACGCGGGCGTT	AACGCCCGCGTGTCCCTCAGAAAA
424	GGTGCTCCGTTGATCGATCCTCC	GGAGGATCGATCAAACGGAGCACC
425	CCGCTTAGGCCATACTCTGAGCCA	TGGCTCAGAGTATGGCTAACGG
426	TAAGACATACCGACGCCCTGCCT	AGGCAAGGGCGTCGGTATGTCTTA
427	GTTCCCGACGCCAGTCATTGAGAC	GTCTCAATGACTGGCGTCGGGAAC
428	TAAAAGTTGGGGAGGTGGGCT	AGCCCGACCTCCGCGAAACTTTA
429	CGGTCCAGACGAGCTGAGTCGGC	GCCGAACTCAGCTCGTCTGGACCG
430	CGGCGTAGCGGCTACGGACTAAA	TTTAAGTCCGTAGCCGCTACGCCG
431	GCTTGGATGCCCATGCGGCAAGGT	ACCTTGGCGCATGGCATCCAAGC
432	AGCGGGATCCCAGAGTTGAAAAA	TTTCGAAACTCTGGGATCCCGCT
433	GAGCTTGGAGAGCGAGGTACCTC	GAGGATGACCTCGCTCAAGCTC
434	GCATGGCCGTTTGACCATATTG	GAATATGGTCAAAACGGCCGATGC

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435	CATAGCGCTGCACGTTCGACCGC	GCGGTCGAAACGTGCAGCGCTATG
436	ACCCGACAAACCACCAATTCAAAAA	TTTTGAATTGGTGGTTGTCGGGT
437	GCGAACACTCATAAGAGCGCCCTG	CAGGGCGCTCTTATGAGTGTTCGC
439	CCGCCGAGTGTAGAGAGACTCCGA	TCGGAGTCTCTCTACACTCGGC GG
440	GACATCGGGAGCCGGAAACATGAG	CTCATGTTCCGGCTCCGATGTC
441	TCGTGTAGACTCGGCACAGGC GT	ACGCCTGTCGCCAGTCTACACGA
442	ATGCGCATATACTGACTGCGCAGG	CCTGCGCAGTCAGTATATGCGCAT
443	ACAAGCGAACCCGAGTTTGATGA	TCATCAAAACTCGGGTTCGCTTGT
444	GCATGAGACTCCGCGAAGACATGT	ACATGTCTCGCGGAGTCTCATGC
445	TCCTACATGTCGCGTCACGATCAC	GTGATCGTACGCGACATGTAGGA
446	GACCGATCGCGAAGTCGTACACAT	ATGTGTACGACTTCGCGATCGGTC
447	GTCGCCAGGACTGGGCCATGTGA	TCACATCGGCCAGTCTGGCGAC
448	ACCGATAAGACTTGCATCCGAACG	CGTCGGATGCAAGTCTTATCGGT
449	TCCATAACCAGTCCGAAGTGCCGG	CCGGCACTTCGGACTGGTTATGGA
450	ACGCGCCCTGCATCTCGTATTAA	TTAAATACGAGATGCAGGGCGCGT
451	AGACCGCATCAATTGGCGCGTACC	GGTACCGGCCAATTGATGCGGTCT
452	AGAGGCTTGGCAAGTAGGGACCC	AGGGTCCCTACTTGCCAAGCCTCT
453	GCAATGGACGCCAGACGATACCGG	CCGGTATCGTCTGGCGTCCATTGC
454	GCTGGACTTAGTCGTGTCGGCGG	CCGCCGAACACGACTAAGTCCAGC
455	AGGCATCGTGCCGGATTGCTCCCT	AGGGAGCAATCCGGCACGATGCCT
456	TGCGCATGTCGACGTTGAACAAAG	CTTTGTTAACGTCGACATGCGCA
459	TTCGGGTCACATCCGATGCCATAC	GTATGGCATCGGATGTGACCCGAA
460	ACCCATGCCGGAAAGCGATGTTG	CAACATCGCTTCCGGCGATGGGT
461	AAGCGCTGACTCGGCTAAGAATCA	TGATTCTTAGCCGAGTCAGCGCTT
462	ACTTCCAAGTCCTTGACCGTCCGA	TCGGACGGTCAAGGACTTGGAA GT
463	TCTCAATATCCCGTAGTCGCCA	TGGGCGACTACGGGAATATTGAGA
464	AAACAGTTCCCTTTTCTGGCGC	GCGCCAGGAAAAGAGGAAC TGT
465	CGTCCTCCATGTTGTCACGAACAG	CTGTTCGTACAACATGGAGGACG
466	TGCGCAGACCTACCTGTCTTGCT	AGCAAAGACAGGTAGGTCTGCGCA
467	ATGGACGGCTTCGACGTCCCTT	AAGGAGGACTGCGAAGCCGTCCAT
468	TGAACGCTTCTATGGGCCACGTA	TACGTGGCCCATAGAAAGCGTTCA
469	TGAACCCCTGCCCGAGCGATAACC	GGTTATCGCTCGCGCAGGGTTCA
470	GTTCTTGCACGATGAATCAGGACC	GGTCCTGATTGATCGCGCAAGAAC
471	AGGGTACGTGTCGAGCTCGCGT	ACGCGAAGCTCGCAGACACGTACCC
472	ACCCCTGCTCCGCCATGTCCTCA	TGAGAGACATGGCGGAGCAAGGGT
473	GGGACAAGGATTGAAGCTGGCGTC	GACGCCAGCTCAATCCTGTCCC
474	TGTCGTTGCTCCCGAGTACCAATTG	CAATGGTACTCGGGAGCAACGACA
475	GTTGTCCGAGACGTTGTGTCAGC	GCTGACACAAACGTCTCGGACAAC

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477	GCTGGTGAACACTCACGAACCGCT	AGCGGTTCGTGAGTGTTCACCAGC
478	GCAGACAGGGCAAATCGGTGCAA	TTTGCACCGATTGCCCTGTCTGC
479	CCCATACAACGAGTGGCGACTTT	AAAGTCGCCACTCGTTGTGATGGG
480	GCTTCTACAGCTGGCGTAGCG	CGCTAGCACGCCAGCTGTAGAAC
481	GAATGTGTGCCGACCATTCTAGCC	GGCTAGAATGGTCGGCACACATT
482	CCAGCGGAAGTTAGAGCTCTGTGG	CCACAGAGCTCTAACCTCCGCTGG
483	TTTTTACCGACCCTCCATGTCGG	CCGACATGGAGTGGTCGGTAAAAA
484	GC GGCTATGTGATGACGGCCTAGC	GCTAGGCCGTACATCACATAGCCGC
485	AGTACACGGGCGTGTAGCGCTCC	GGAGCGCTAACACGCCGTGTACT
486	TCCTGTGTGGTGGCGCACTCCCAC	GTGGGAGTGCGCCACCACACAGGA
487	CCAACTAACCAATCGCGCGGATGA	TCATCCGCGCGATTGGTTAGTTGG
488	AGTGAGTGACCAAGGCAGGAGCAA	TTGCTCCTGCCTTGGTCACTCACT
489	CATCTTCGCGGAGTTATTGCGG	CCGCAATAAAACTCCGCGAAAGATG
490	CTTCGTCGGTTAGTGCAGACAGCA	TGCTGTCGCACTAACCGGACGAAG
491	CTCACGAAAACGTGGGCCGAAAT	ATTTGGGCCACGTTTGTGAG
492	CGCAGCAGCTGAACCTAGCATTG	CAATGCTAGAGTTCAGCTGCTGCG
493	AGGAGACATACGCCAAATGGTGC	GCACCATTGGCGTATGTCTCCT
494	ATTGAGAACTCGTGGGGAGTTTG	CAAACCCGCACGAGTTCTCAAT
495	CTCTTGTAGGCCAGGAGGAGCA	TGCTCCTCCTGGGCCTACAAAGAG
496	GCCGCAGGGTCGATAATTGGTCTA	TAGACCAATTATCGACCCCTGCGGC
497	AAACGCCGCCCTGAGACTATTGGG	CCCAATAGTCTCAGGGCGGCGTT
498	CTGAGTTGCCTGGAACGTTGGACT	AGTCCAACGTTCCAGGCAACTCAG
499	CGGATGGGTTGCAGAGTATGGGAT	ATCCCATACTCTGCAACCCATCCG
500	CTGACCTTGGGGTTAGTGCAGG	ACCGCACTAACCCCCAAAGGTCA
501	GGAAATGAGAACCTACCCAGCG	CGCTGGGTAAGGTTCTCATTTCC
502	AACGCATCGTCCGTAACTCATCA	TGATGAGTTGACGGACGATGCGTT
503	TGGAGAGAGACTTCGGCATTGTT	AAACATGGCCGAAGTCTCTCCA
504	TTGCGCTCATTGGATCTTGTCA	CCTGACAAGATCCAATGAGCGCAA
505	AGCGCGTTAACAGCACGGCAACATT	AATGTTGCCGTGCTTAAAGCGCCT
506	AGCCAGTAAACTGTGGCGGCTGT	ACAGCCGCCACAGTTACTGGCT
507	CGACTGATGTGCAACCAGCAGCTG	CAGCTGCTGGTTGCACATCAGTCG
508	GGTTGCTCATACGACGAGCGAGT	CACTCGCTCGTCGTATGAGCAACC
10	GTCCAACCGCGCAACTCCGATTCAA	TTGAATCGGAGTTGCGCGTTGGAC
11	TTGCCGCACCGTCCGTACCTCAA	TTGAGATGACGGACGGTGCAGGCAA
512	AGAACCTCCGCGCCTCCGTAGTAG	CTACTACGGAGGCGCGGAGGTTCT
513	AAAGGAGCTTCGCCAACGTACC	GGTACGTTGGCGAAAGCTCCTT
514	AGTGATTGTGCCACTCCACAGCTC	GAGCTGTTGGAGTGGCACAACTACT
515	GCGATCGTCGAGGGTTGAGCTGAA	TTCAGCTAACCCCTCGACGATCGC

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516	GGGAGACAGCCATTATGGTCCTCG	CGAGGACCATAATGGCTGTCTCCC
517	GAGACGCTGTCACTCCGGCAGAAC	GTTCTGCCGGAGTGACAGCGTCTC
518	CCACCCGGTCGCTTAAGATGCACTT	AAGTGCATCTTAAGCGACCGGTGG
519	CGGCATAACGTCCAGTCCTGGGAC	GTCCCAGGACTGGACGTTATGCCG
520	AAGCGGAACGGTTATACCGAGGT	ACCTCGGTATAACCCGTTCCGCTT
521	TGCACACTAGGTCCCGTCGCTTGAT	ATCAAGCGACGGACCTAGTGTGCA
522	AGGGAAACCGCGTTCAAACTCAGTT	AACTGAGTTGAACGGGTTCCCT
523	GAATTACAACCACCCGCTCGTGT	AACACGAGCGGGTGGTTGTAATT
524	TTCAGTGCTCACGAAGCATGGATT	AATCCATGCTCGTGAGCACTGAA
525	TTAGTTGGCGTTGGGACTTCACC	GGTGAAGTCCAACGCCAACCTAA
526	AATGCGACCTCGACGAGCCTCATA	TATGAGGCTCGTCGAGGTCGCATT
527	CCGAAACCGTTAACGTGGCGCACA	TGTGCGCCACGTTAACGGTTCCG
528	TAAAGTAACAAGCGACCTCCCGC	GCAGGGAGGTGCGCTTGTACTTTA
529	TAATGATTTAGTCGCGGGGTGGG	CCCACCCCGCGACTAAAATCATTA
530	GGCTACTCTAACGTGCCGCTCAGG	CCTGAGCGGGCACTTAGAGTAGCC
531	TGGCGGACGACTCAATATCTCACG	CGTGAGATATTGAGTCGTCGCCA
532	GGGCGTTAGGCGTAATAGACCGTC	GACGGTCTATTACGCCAACGCC
533	GCCACCTTTAGACGGCGGCTCTAG	CTAGAGCCCGCGTCTAACGGTGGC
534	GAGATGTAAACGTGCAGGCACC	GGTGCCTGCACGTTACACATCTC
535	TAGCTCGTGGCCCTCCAAGCGTGT	ACACGCTTGGAGGGCACGAGCTA
536	GTGTCGGCGCTATTGGCCTTACC	GGTAAGGCCAAATAGGCCGACAC
537	CCAGGGAAAGCAACTGGTGCATT	AATGGCAACCAGTTGCTCCCTGG
538	TTCCGAAACTAACGCCAGGGCT	AGCGGTTCTGGCTTAGTTGGAA
539	GCAAACCCGTAACCCGAGAGTC	GAACCTCGGTTACCGGGTTGC
540	GCAAATGGCGTCAATGCACGAACGT	ACGTTCGTGCATGACGCCATTGC
542	AGTACTTCGCGCCCAGTTAGGG	CCCTAAACTGGCGCGAAAGTACT
543	AAGATCTGCGAGGCATCCCGCTT	AAGCCGGATGCCCGCAGATCTT
544	GCAAGTGTATCGCACAGTGCATT	AATCGCACTGTGCGATACTTGC
545	CCGACAAGGCCTCAATTCTTG	CAGAATGAATTGAGGCCCTGCG
546	GTCTCGTCTCAACTTAAGCGCG	CGCGCCTTAAAGTTGAGACGAGAC
547	ATCCAGAGATCCGTTTGCAGCGT	ACGCTGCAAAACGGATCTCTGGAT
548	GTCACCAGGAGGGAAGTTACCC	GGGTGAAACTTCCCTCTGGTAC
550	TTCCGTCAGGCGGATCAACGGAAT	ATTCCGTTGATCCGCCGTACGGAA
551	ATGCCGGACACGCATTACACAGGC	GCCTGTGTAATGCGTGTCCGGCAT
552	TGGGCCGCTGGCGCTTCATAGA	TCTATGAAAGCGCCAAGCGGCCA
553	CCTAGCGCGAGCTTACTGACCAAG	CTGGTCAGTAAAGCTCGCGCTAGG
554	TTGGCCAGGAATATGGTCTCGAGA	TCTCGAGACCATAATTCCGGCAA
555	GTCTCGGGCCGACTTGCTATGCAT	ATGCATAGCAAGTCGGCCGCAGAC

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556	AACTTGCTCATTCTCAAGCCGACG	CGTCGGCTTGAGAATGAGCAAGTT
557	ACGTCA CGCATTGTGGCGAAATAT	ATATTCGCCACAATCGCTGACGT
558	ACGGCCTGCGTCAGCACATGCATC	GATGCATGTGCTGACGCAGGCCGT
559	ATACCTCCCGAGAACCATCCGTT	AACGGAATGGTCTGCGGAGGTAT
560	AGTTCGCGGTCCCACGATTCACTT	AAGTGAATCGTGGGACCGCGAAGT
561	TGCTCAATTGTGCAGAAAAGGCC	GGCGTTTCTGCACAAATTGAGCA
562	TTATCGCGAGAGACGACCGTGTCC	GGACACGGTCGTCTCGCGATAA
563	GACGCGACGTGAGTAGTGGAGCG	CGCTTCCACTACTCACGTGCGTC
564	ATGGTAGGGGCATTGGGCTTCCT	AGGAAAGCCCAATGCCCTACCAT
565	CCAAATATAGCCCGCGGGAGACAT	ATGTCCTCGCGCGGCTATATTGG
566	GCAAACCCCTGATTGAATCGTGCCC	GGGCACGATTCAATCAGGGTTGC
567	TAGCGTCTTGCYTGAACCATGGG	CCCATGGTTTACGCAAGACGCTA
568	CCACCCCGACAGCGCTGGACTCTT	AAGAGTCCAGCGCTGTCGGGGTGG
569	ACGAGCACTGAAGGCTGCTTACG	CGTAAAGCAGCCTTCAGTGCTCGT
570	CATATCAGCGTCGTCTAGCTCGCG	CGCGAGCTAGACGACGCTGATATG
571	TGATCCC GGACCGGCTAGACTAAT	ATTAGTCTAGCCGGTCCGGATCA
572	GGCCCCGACACTACAGGGTAATCA	TGATTACCTGTAGTGTGCGGGGCC
573	GGCTCCAGGGCGAGATTATGAATG	CATTCTAAATCTGCCCTGGAGCC
574	CAAATCCGATGGCGGAAAATTA	TAATTTCCGCCATCGGATTTG
575	CACAGGCGCATAGGGAGCAAGCTA	TAGCTTGCCTCCATGCGCTGTG
576	TAGCTATTGCCCGATGGCTACT	AGTAGCCCCTGGGCAATAGCTA
577	TGGTACCGGGTCCATAGCAAGTCG	CGACTTGCTATGGACCGCGTACCA
578	GACGCTGTGGCTCGGAAACTGTT	GAACAGTTCCGAGCCACAGCGTC
579	CCTGGGTTCGCCCGTGGTAACTG	CAGTTACCACGGCGAACCCAGG
580	TTCCCGCGTAGCCCAACAGCTATA	TATAGCTGTTGGCTACGCGGGAA
581	TTCGCGGATTGCTGCCGCATAACA	TGTTATGCGGCAGCAATCCGCGAA
582	AAAAATGGCACCGAAGTTGAGGCA	TGCCTCAACTCGGTGCCATT
583	CATTCCCGCGAGTTGAAATCCAG	CTGGATTCAACTCGCGCGGAATG
584	ACGCACGTTTTGGCACGGTTAA	TTAACCGTGCCAAAAACGTGCGT
585	TGTCCATGACGTCGTTCTGGT	ACCAAGAGAAACGACGTGATGGACA
586	TCTCAGTCGGACTCGTATGCCAGA	TCTGGCATACGAGTCCGACTGAGA
587	CTCCAAACGCACACATCAAGCATC	GATGCTTGATGTGCGTTGGAG
588	TTCAACCAAGCGGGGTGTTCGTGA	TCACGAACACCCCGCTGGTTGAA
589	GGTGTGGAGGGTGGTGACCTCGA	TCGAGGTCAACCACCCCTCCGACACC
590	AGCGCTTTGGTCATGATTGCAA	TTGCAAATCATGACCAAAAGCGCT
591	CCGAGGACTTACGTCTGCCAGGA	TCCTGGGCAGACGTAAGTCCTCGG
592	GCCCAATCCAGTTCTATGCGCCC	GGGCGCATAAGAACTGGATTGGC
593	CGGGTTAACCCACGCAAGTTATGA	TCATAACTGCGTGGTTAACCG

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594	TGATTAGCGCTCAATACACCGCTG	CACCGCGTGTATTGAGCGCTAATCA
595	AAGGGCAGACCTTGGTCGACTG	CAGTCGAACCAAAGGTCTGCCCTT
596	GCGCCACAAGATTACATGTCATT	AATGACATGTGAATCTTGTGGCGC
597	GCCATGTTCAAGGGCCTTCGAAG	CTTCGAAAGGCCCTGAACATGGC
598	CGCGGTGTTTGTCTAGGTGCCGG	CCGGCACCTAGACAAAACACCGCG
600	CAACATTGTGGTGGCACTCCATCC	GGATGGAGTGCCACCACAATGTTG
601	CGATACGCCCGGTTGTTAAATC	GATTAAACAAACGGCGCGTATCG
602	GGCTATAAACGTGCGGACTGCTCC	GGAGCAGTCCGCACGTTATAGCC
603	TGGGTAAATCACTATTGCGCGGTT	AAACCGCGCAATAGTGATTACCCA
604	GTCTTCATCGGCCCGCGCAAGCTA	TAGCTTGCAGGGGCCATGAAGAC
605	GCGACACACCCCTGTACTCTGATGC	GCATCAGAGTACAGGGTGTGTCGC
606	GTAGCAGGGTCCGCAAGACCAAGC	GCTTGGTCTTGCAGGCCCTGCTAC
607	TCGCCAACGCAAGGGTAAGGCCAT	ATGGCAGTTACCCCTGCCTGGCGA
608	ACTCCGAAGCTCGAGCGGCACGA	TCGTGCCGCTCGAAGCTCGGAGT
12	CATCGTCCCTTCGATGGGATCAA	TTGATCCCCTCGAAAGGGACGATG
13	GCACGGGAGCTGACGACGTGTCAA	TTGACACGTGTCAGCTCCGTGC
611	ATCATCCCACGGCAGAGTAAAGAG	CTCTTCACTCTGCCGTGGATGAT
612	CGCTGGACTGGCCTATCCGAGTCG	CGACTCGGATAGGCCAGTCCAGCG
613	CGGTCTCAGCAACACTGTCGAAA	TTTGCACAGTGTGCTGAGACCG
614	CGAACGTTCTCCGATGTAATGGCC	GGCCATTACATCGGAGAACGTTCG
615	ATACCGTGCAGACAAGCCCTCTGA	TCAGAGGGCTTGCACGGTAT
616	AGCTCATTCCCAGACGGAACACC	GGTGTCCGCTCTGGGAATGAGCT
617	TTTCATCGGCCGTTGCAAATCAT	ATGATTGCAACGGCCATGAAA
618	ACTCGAACGGACGTTCAATTCCC	TGGGAATTGAAACGTCCGTTGAGT
619	CTGCATGGTGTGGGTGAGACTCCC	GGGAGTCTCACCCACACCATGCAG
620	CCGCGAGTGTGGATGGCGTGTGA	TCAACACGCCATCCACACTCGCGG
621	AATGTGTCGGCTTAAGCCGGTG	CACCCGGCTTAGGACCGACACATT
622	TAAGACCGAGCCTGCACAGCTTGC	CGCAAGCTGTGCAGGCTCGTCTTA
623	GGCGTGGGAGGATAAGACGATGTC	GACATCGTCTTACCTCCCACGCC
624	TGCTCCATGTTAGGAACGCACCAC	GTGGTGCCTTAACATGGAGCA
625	CGGTGTTGGTCGGACTGACGACTG	CAGTCGTCAGTCCGACCAACACCG
626	CCGCGCGTATCTACAGATCTGGG	CCCAGATCTGATAGATAACCGCGG
627	AAAGCATGCTCCACCTGGAGCGAG	CTCGCTCCAGGTGGAGCATGCTT
628	ACTTGCATCGCTGGTAGATCCGG	CCGGATCTACCCAGCGATGCAAGT
629	TGCTTACGCAGTGGATTGGTCAGA	TCTGACCAATCCACTGCCTAAGCA
630	ATGCAGATGAACAAATGCCGAAT	ATTGGCGATTGTTCATCTGCAT
631	GCAATTCTGGGCCATGTATTGTC	GACGAATACATGGCCCAGAATTGC
632	AGGGTTCCCTACGCGTCGACATGG	CCATGTCGACCGCGTAAGGAACCC

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633	GTGGAGCTAATCGCGAGCCTCAGA	TCTGAGGCTCGCGATTAGCTCCAC
634	TCGTAGTCTCACCGGCAATGATCC	GGATCATTGCCGGTGAGACTACGA
635	TTATAGCAGTGCGCCAATGCTCG	CGAACGCATTGGCGCACTGCTATAA
636	CGAACAGTGCTGCCGTCGCTCAA	TTGAGCGACGGACAGCACTGTTCG
637	TCCCGGTGGACTGTTAGACGCTAT	ATAGCGTCTAACAGTCCACGCCGA
638	CATTAGCCCCTGTCGGTAACGT	ACAGTTACCGACAGCGGGCTAATG
639	GGAAAGAAAATCAGACGCCAATG	CATTGCCGCTGAGTTCTTCC
640	CGACTCGCTGGACAGGAGAACGT	ACGATTCTCCTGTCCAGCGAGTCG
641	CATGATCCTCTGTTCACCGCGG	CCGCGGGTGAAACAGAGGATCATG
642	GGCGTAGCGCTCTAAAGCTTCGG	CCGAAGCTTTAGAGCGCTACGCC
643	AGTGATGCCATCAGGCCGTATAC	GTATACGGGCCTGATGGCATCACT
644	TATGGAAAGGGCAACAGCGCTATC	GATAGCGCTGTTGCCCTTCCATA
645	CTGTGGTTGATGGAGGATCCACAC	GTGTGGATCCTCCATCAACCACAG
646	ACTCGCTGGAATTGCGCTGACAC	GTGTCAGCGCAAATTCCAGCGAGT
647	CAGGCCCGAACACAGCGGTTACAG	CTGTAACCGCGTGGTCGGGCTG
648	GGCGCAATGGCGCATAAATCTA	TAGTATTATGCGCCCATTGCGCC
649	GGTCAATTGCGCTACATGCCCTA	TAGGGCATGTAGCGCGAATTGACC
651	GATGGTGGACTGGAGCCCTCCGC	GCGGAAGGGCTCCAGTCCACCATC
652	CCGCGCATAGCGCAATAGGGGAGA	TCTCCCTATTGCGCTATGCGCGG
653	TCTTCTGGCTGTCCGGCACCCGAA	TTCGGGTGCCGGACAGCCAGAAGA
654	GCGTCGCAATTACGGGCCCTTA	TAAGGGCCCGTGAATTGCGAACGC
655	TCGTTTCGGCCTTGGAGAGTATCG	CGATACTCTCCAAGGCCAACCGA
656	AGGTGCAAGTGCAAGGCCAGAGGC	GCCTCTGCCCTTGCACTTGCACCT
657	CGCCAGTTCGATGGCTGACGTTT	AAACGTCAGCCATCGAAACTGGCG
658	GCTTACCGCCGATCCCAGATATC	GATATCTGGGATGGCGGTAAAGC
659	GTGCTTGACGAAGAGGCCAAATGT	ACATTGCGCTTCTGCAAGC
660	CAGTCCTGCGCTTCATGCTCTCA	TGAGGACATGAAGCGCACGGACTG
661	TACGCGTAAGAGCCTACCCCTCGCG	CGCGAGGGTAGGCTTACGCGTA
662	GGCGAGTCTTGTGGGGACATGTGT	ACACATGTCCCCACAAGACTGCC
663	CCAAAGCGAAGCGAGCGTGTAT	ATAGACACGCTCGCTCGCTTGG
664	GCGTAGGTTGCTCTCACCGAAC	GTTCGGTGAAGAGCAACCTACGGC
665	AAATCCCGATGTGCCGTGAGGCT	AGCCTCACGGCACATCGCGGATT
666	GGCTTCGCAACCGTACCAATTAG	CTAAATTGGTACGGGTGCGAAGCC
667	TGTAGAGTCCCACGTAGCCGGCAT	ATGCCGGCTACGTGGACTCTACA
668	CACTAGTCTGGGGCAAGGTGCATT	AATGCACCTTGGCCAGACTAGTG
669	TGTACTCGGCAGGCCAATAGATT	AATCTATTGCGCCTGCCAGTACA
670	AACGGGTATCGGAAGCGTAAAGC	GCTTTACGCTCCGATACCGTT
671	CGGACTGCCGTTGCAAGTTGAG	CTCAACTGCAAACGGCAGTCG

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672	ATCGTCAGCACTGGAGCCCGTAA	TTACGGGCTCCAGTGCTGAACGAT
673	ATGCATCGAACTAGTCGTGACGGC	GCCGTCACGACTAGTCGATGCAT
674	TTCCAGGCATTAAGGAGAGGGAGC	GCTCCCTCTCCTTAATGCCTGGAA
675	GTGCGACATCTACTCCACGATCCC	GGGATCGTGGAGTAGATGTCGCAC
676	CTCATCGTCCTAACACGAGAGCCC	GGGCTCTCGTGTAGGACGATGAG
677	AATGGCACTCGGCGGTGATGCAA	TTGCATCACCGCCGAAGTGCCATT
678	CCGTGGGAGGGATCCAACCGAGG	CCTCGGTTGGATTCCCTCCCACGG
679	AAATTCTCGTGGTGACGGCTCAT	ATGAGCCGTACCAACGAGAATT
680	TTGCTCTTATCCTGTCCTGGCG	CGCCCAGGACAAGGATAAGAGCAA
681	TTAAGGATCAGGCGGAGCTTGCAG	CTGCAAGCTCCGCCTGATCCTAA
682	CGCGACTAAGGTGCTGCAACTCGA	TCGAGTTGCAGCACCTAGTCGCG
683	GCTCGATTTCACGGCCCGTTGTC	GAACAACGGGCCGTGAAATCGAGC
684	AGCAGAGTGCCTGCAGAGGCTAA	TTAGCCTCTGCAACGCACCTGCT
685	TGGAGGTGAGGACGACGTGCACTA	TAGTGCACGTCGTCCTCACCTCCA
686	AACCGTTAGGGTACATTGCGGT	ACCGCGAATGTACCCCTAAACGGTT
687	TATGATCGCTCGGCTCACAGTTG	CAAACGTGAGCCGAGCGATCATA
688	GACTTTTGCAGAACGTCATGGT	ACCATGACGTTCCGCAAAAGTC
689	TGTCGGTTATTCCACCTGCAAGGA	TCCTGCAGGTGGAATAACCGACA
690	CTATGGTTGCACTGCGCCGTCGA	TCGACGGCGCAGTGCAAACCATAG
691	AGCAGGGAAATTCAATCGTCGCA	TGCGAACGATTGAATTCCCTGCT
692	CCTAACCGAGCGCTTAGCATTCC	GGAAATGCTAAGCGCTCGGTTAGG
693	CCCGACCTAACTCGCATTGAATA	TATTCAATGCGAGTTAGGGTCGGG
694	TTGCTTAATGGTGACGCCACGGAT	ATCCGTGGCGTCACCATTAAGCAA
695	GATGCTGCCGTGTTAGTCACG	CGTGAACCTAACACGGCGAGCATC
696	TCGGATGACGAGTTCCATGACGG	CCGTCATGGAAACTCGTCATCCGA
697	ATGCGGTCTACTTCTCGATCGGG	CCCGATCGAGAAAGTAGACCGCCT
698	TTGCGAGGCTAACGACACGGTAA	TTTACCGTGTGCTTAGCCTCGCAA
699	AACTTAATTACCGCCTCTGGCGCC	GGCGCCAGAGGCGGTATTAAGTT
700	GTCGACCGCGAACCTGTTCCGACAG	CTGTCGGAACAAGTTCGCGGTAC
701	TGCGGATTACCGATTGCTCTTAA	TTAAGAGCGAACCGTAATCCGCA
702	TGATAGGGGCCACGTTGATCAGA	TCTGATCAACGTGGCCCCCTATCA
703	TCGCTCCGTAGCGATTCATCGTAG	CTACGATGAATCGCTACGGAGCGA
704	TGTCAGCTGGTAGCCTCCGTTGA	TCAAACGGAGGCTACCAGCTGACA
705	AGCGTCGCATGACGCTTACGGCAC	GTGCCGTAAGCGTCATGCGACGCT
14	AGACGCACCGAACAGGCTGTCAA	TTGACAGCCTGTTGCGGTGCGTCT
15	CGTGTAGGGTCCCGTGTCAA	TTGACAGCACGGACCCCTACACG
708	GTCGCATTCTGCACTGGCTCGCC	GGCGAAGCCAGTGCAGAATGCGAC
709	TGATTAGGTGCGGTCCCGTAGTCC	GGACTACGGGACCGCACCTAATCA

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710	AAGGGACCTGGGTGACGGCGAGA	TCTCGCCGTACCCAAAGGTCCCTT
711	TCAAATGGCCACCGCGTGTCAATT	GAATGACACCGCGTGGCCATTGA
712	CTCCGACGACCAATAAATAGCCGC	GCGGCTATTATTGGTGTGCGAG
713	GGCTATTCCCGTAGAGAGCGTCCA	TGGACGCTCTACGGGAATAGCC
714	TGGATAACCTCTCGGTCCATCCAC	GTGGATGGACCGAGAGGTTATCCA
715	GACCGCTGTACGGGAGTGTGCCTT	AAGGCACACTCCCGTACAGCGGTC
716	GCCACAGAGTTTAGCAGGGACCC	GGGTCCTGCTAAAACCTGTGGC
717	CCCACGCTTCCGACCCTGACCT	AGGTCAGTGGTCGGAAAGCGTGGG
718	CATTGACACAATGCGGGGACTGAT	ATCAGTCCCCGATTGTGTCAATG
719	AGCCACTCGACAGGGTCCAAAGC	GCTTGGAACCTGTCGAGTGGT
720	CAGGATGAGCAAAGCGACTCTCCA	TGGAGAGTCGCTTGCTCATCCTG
721	CAAGGTATGGTCTGGGGCCTAAGC	GCTTAGGCCCCAGACCATACCTTG
722	GGTGTTCGGCCTAAACTCTTCGG	CCGAAAGAGTTAGGCCAACACC
723	TTTAGTCGGACCCGTGGCAATT	GAATTGCCACAGGGTCCGACTAAA
724	CACACGTTCCGACCAGCCTGAAC	GTTCAGGCTGGTCGGAAACGTGTG
725	CTGGACGAACCTGGCTTCCTCGTAC	GTACGAGGAAGCCAGTCGTCCAG
726	TTCACAAATCCGCCGAAAACTGACC	GGTCAGTTTCGGCGGATTGTGAA
727	AACAGGATATCCCGCGATACGACA	TGTCGTGATCGCGGATATCCTGTT
728	TACGTGGATCCATTGCGCCGAGT	ACTCGCGCAATGGATCCGACGTA
729	CATGGATCTCTCGGTTGATCGCC	GGCGATCAAACCGAGAGATCCATG
730	AGCCAGGCGCGTATATACGCTCGG	CCGAGCGTATATACGCCCTGGT
731	ATTTGGCACGTGTCGTGCCATGTT	AACATGGCACCGACACGTGCCAAAT
732	CCGCGTTGCACCACTTGAGGTGC	GCACCTCAAAGTGGTGCAACGCGG
733	TTGGACGTGACAAGCATGGCGCTC	GAGCGCCATGTTGTCACGTCCAA
734	CTGAATCGCGCAAGTAAATGGGGG	CCCCCATTACTTGCACGATTCAAG
735	GATAAGGTCCACCAAGATTGCGCGC	GCGCGCAATCTGGTGGACCTTATC
736	CTAACAAATTGCCAACCGGGACGGC	GCCGTCCGGTTGGCAATTGTTAG
737	GGTAACCTGGGTGCTTGCAAGGTTA	TAACCTGCAAGCACCCAGGTTACC
738	ATCGGAGCCACCATCGCATTGGG	CCCAATGCGAATGGTGGCTCCGAT
739	GTGAACCTGGCTTCCCCAGGATTA	TAATCCTGGGGCAAGCCAGTCAC
740	AGGCGATAGCATGGTCCCATATGA	TCATATGGGACCATGCTATCGCCT
741	AACGGTATCGTGGCTAATGCACGA	TCGTGCATTAGCCACGATACCGTT
742	AGTAGTGGCCTCCAGATCGGCAA	TTGCCGATCTGGAGGACCAACTACT
743	CCGTTGAATTGGACGGGAGGTTAG	CTAACCTCCCGTCCAATTCAACGG
744	GCATAAGTGGCGCATCGCGAAGGG	CCCTTCGCGATGCCGCACTTATGC
745	CGACAAGATGCAGCTGCTACATGC	GCATGTAGCAGCTGCATCTTGTG
746	TCGCAGTGATTCCGACCGATAAG	CTTATCGGTGGGAATCACTGCGA
747	CAAGGCGAGTCCACTCGAGGGGAC	GTCCCCCTGAGTGGACTCGCCTTG

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748	GCAACTTGCACGGCATAAGTGGCC	GGCCACTTATGCCGTGCAAGTTGC
749	TCCGAGCTTGACGTTCGCGACGTC	GACGTGCGAAGCTCAAGCTCGGA
750	AGCGCTGGCTGTGCTGCCATCTC	GAGATGGCAGCACAGCCCAGCGCT
751	TTCATGTCGCTGAGTAACCCTCGC	GCGAGGGTTACTCAGCGACATGAA
752	CGAACCGCTAATGCCATTGTCAG	CTGACAATGGGCATTAGCGGTTCG
753	CACGGAAGGTGGGACAAATCGCCG	CGGCGATTGTCCCACCTTCCGTG
754	CACAGATGGAGACAAACGCGCCTT	AAGGCGCGTTGTCTCCATCTGTG
755	TTTCGCAACTCGCTCCATAACCC	GGGTTATGGAGCGAGTTGCGAAAAA
756	ACGTTACGTTCCGGCGCCTCTAA	TTAGAGGCGCCGGAAACGTAACGT
757	TATCGGATTGCGTGGGTTCAATC	GATTGAAACCCACGCAATCCGATA
758	CTTCCACAAATTGTCGACGCAC	GTGCGTCGCAGACAATTGTGGAAG
759	TGCACAAAGGTATGGCTGTCCGGC	GCCGGACAGCCATACCTTGTGCA
761	TCCGATGCCAGTCCCATCTTAAGA	TCTTAAGATGGGACTGGCATCGGA
762	CTGAAACCGTGCAGATCGAGGTGA	TCACCTCGATTGCAACGGTTTCAG
763	CGGTGTTCCCGTGTGCAAAAAAT	ATTTTCGACACGCGGAACACCG
764	TCTAGCAGGCCTTGAATGCCA	TGGCGATTCAAAAGGCCTGCTAGA
765	GAGTCACCTCTGAGACGGACGCCA	TGGCGTCCGTCTCAGAGGTGACTC
766	TCTTCTGTCATCCTGCAGCAGCAT	ATGCTGCTGCAGGATGACAGAAGA
767	GC GGATGAAACCTGAAAGGGCCT	AGGCCCCTTCAGGTTCATCCGC
768	GGGGCCCCAAACTGGTATCAAGCC	GGCTTGATACCAGTTGGGCCCC
769	GCATTGGCTCGGATTCTCCTACA	TGTAGGAGAATCCGAAGCCAATGC
770	AGGCGGCCAACTGTGAGGTCTTG	CAAGACCTCACAGTTGGGCCGCCT
771	ACACCATGTGCTCCGCGCTGCAGT	ACTGCAGCGGGAGCACATGGTGT
772	ACGATGAACATGAATCGGGAGTCG	CGACTCCGATTGTCATCGT
773	CTGCATCCCTGTAGCAGCGCTCCG	CGGAGCGCTGCTACAGGGATGCAG
774	GTGCCGTATTCGACCTGTGCGTT	AACGCACAGGTCGAAATACGGCAC
775	GCAGTGCACACTTCAGTTCAAAG	CTTTGAAGTGCACACTGC
776	GCGATTTAAGCGATGCCATTGACG	CGTCAAGGCATCGCTAAATCGC
777	TAGGTGACCTAGGCTTGCTTGGG	CCGCAAGCAAGCTAGGTACCTA
778	CTGGATACCTTGCCTGTGCGGCC	GCGCCGCACAGGCAAGGTATCCAG
779	CCCCTTACGGCTCGTGTATGC	GCATAGACGACGAGGCCGTAGGGG
780	GCGCTGCCCGATGCAGTCATTA	TAATGCATGCATCGGCAAGCGC
781	TTTCTGTAAGCGGCCTGGGTTCA	TGAACCCCAAGGCCGCTTACAGAAA
782	GGCTGAGGTGAGCGGTAAAGGATGA	TCATCCTTACCGCTACCTCAGCC
783	TCTTGGCCTCCCCGATCTAATTG	CAAATTAGATGGGGAGGCCAAGA
784	GGAGGTAACGCCGTGTACGTAGGA	TCCTACGTACACGGCGTTACCTCC
785	GTAATCCATTGTGGCTGCGTCAA	TTGACGCAGCCACAAATGGATTAC
786	CAAACCCATTCCAGCAGACGCC	CAGGCGTCTGCTGGAATGGTTG

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787	TAGGAGGAATTGGCATGCGGGCG	CGCCCGCATGCCAATTCCCTCCTA
788	ATAGGTAGGATGTGCCGGCGTTG	CAACGCCGGGCACATCCTACCTAT
789	GCAAGTGCTTAGCTCGTCAGCCTC	GAGGCTGACGAGCTAAGCACTTGC
790	CTGGCTGTGTCGCATCTCGTTAAC	GTAAACGAGATGCGACACAGCCAG
791	CTAACGTCGTCTCGCGAATCACT	AGTGATTGCGAGACGACGTTAG
792	TTTTCATAAACGTTGTCCCCGAGC	GCTCGGGGACAACGTTATGAAAA
793	AGCAGGAGGACGAACCTCCGCTCC	GGAGCGGAGGTTGCTCCTCCTGCT
794	TTCAAGCACCATCGTGCAATCCAA	TTGGATTGCACGATGGTGCTTGAA
795	AGCGTCGCCAGTGATCGCTAGTGG	CCACTAGCGATCACTGGCGACGCT
796	TACATTCCCTGCCTCCGTGGCTT	AAGCCCACGGAGGCAGGGAATGTA
797	CGCTTCGCGTATTCACTAGCGGTT	AACCGCTACTGAATACCGAAGCG
798	TCGGACCGCGTCACTCATTATA	TATAATGAGTGTGACCGGTCCGA
799	TCTGAGCAGGCCAGCGCTCCAGCT	AGCTGGAGCGCTGGCCTGCTCAGA
800	TTGAATTGCCAAGCCCTGAAAGCC	GGCTTCAGGGCTGGCAATTCAA
801	AGTTTTCGCCATTGATGCGTCGGTG	CACCGACGCATCAAGGCGAAAAC
802	GTTTCATAGGCCACGCGTGCTAAA	TTTAGCACCGCGTGGCCTATGAAAC
16	CATCGCTGCAAGTACCGCACTCAA	TTGAGTGCAGGTACTTGCAAGCGATG

Please replace the table starting on page 236, line 1, with the following rewritten table:

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TABLE 4

Seq. ID No.	Decoder Sequence (5'-3') + 5' T	Probe Sequence (5'-3') + 5' T
4001	TTTCGCCGTCGTGAGGCTTTCAA	TTTGAAAAGCCTACACGACGGCGAA
4002	TGTTCCCAGTGAAGCTGCGATCTGG	TCCAGATCGCAGCTTCACTGGGAAC
4003	TTACTTGGCATGGAATCCCTACGC	TGCGTAAGGGATTCCATGCCAAGTA
4004	TACTAGCATATTCAGGGCACCGGC	TGCCGGTGCCTGAAATATGCTAGT
4005	TGAACGGTCAATGAAACCGCTGTGA	TTCACAGCGGTTCAATTGACCGTT
4006	TGCGGCCTTGGTCAATATGAATCG	TCGATTCAATTGAAACCAAGGCCGC
4007	TGATCGTTAGAGGGACCTGCCCCGA	TTCCGGCAAGGTCCCTAACGATC
4008	TTGGACCTAGTCCGGCAGTGACGAA	TTTCGTCACTGCCGGACTAGGTCA
4009	TATAAACTACCCAGGACGGCGGAA	TTTCCGCCGTCCGGTAGTTAT
4010	TCATCGGTTCGCGCCAATCCAGATA	TTATCTGGATTGGCGCGAACCGATG
4011	TGTCGGGCATAGAGCCGACCACCT	TAGGGTGGTCCGCTATGCCCGAC
4012	TCTTGGGTCAATGATTGACCGTGCTA	TTAGCACGGTGAATCATGACCCAAG
4013	TTGCCTAACGTGCTAATCAGCAGCG	TCGCTGCTGATTAGCACGTTAGGCA
4014	TCGCATGTTGGAGCATATGCCCTGA	TTCAGGGCATATGCTCCAACATGCG

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4015	TAGCCACTGCATCAGTGCTGTTCAA	TTTGAACAGCACTGATGCAGTGGCT
4016	TGGTTGTTTGAGGGCGTCCCACACT	TAGTGTGGGACGCCTCAAAACAACC
4017	TTCGACCAAGAGCAAGGGCGGACCA	TTGGTCCGCCCTGCTCTGGTCGA
4018	TGACATCGCTATTGCGCATGGATCA	TTGATCCATGCGCAATAGCGATGTC
4019	TGAAATACGAAGTCTGCGGGAGTCG	TCGACTCCCAGACTTCGTATTC
4020	TTGTCATGAATGATTGATCGCGCGA	TCGCGCGATCAATCATTGACATGACA
4021	TATATCGGGATTGTTCCCGGTGAA	TTTCACCGGGAACGAATCCGATAT
4022	TGCGAGCGTACCGAAGGGCCTAGAA	TTTCTAGGCCCTCGGTACGCTCGC
4023	TTTACCGGCAGCGGACTTCCGAATT	TAATTCGGAAGTCCGCTGCCGGTAA
4024	TGTAATCGAGAGCTGCGCGCGTCT	TAGACGGCGCGCAGCTCTGATTAC
4025	TCCTGTTAGCGTAGGCGAGTCGATC	TGATCGACTGCCCTACGCTAACAGG
4026	TTAGCGGACCGGCAGAACATGAGTTCC	TGGAACACTATTCTGCCGGTCCGCTA
4027	TGGTACATGCACTACGCGCACTCGG	TCCGAGTGCAGCTAGTGCATGTACC
4028	TAATTGATCTCGGACTCCCGCGGTA	TTACCGCGGGAGTCCGAGATGAATT
4029	TGCCAAATCTGGATTGGCAGGAATG	TCATTCTGCCAACCCAGATTGGC
4030	TTGCATTTCGGTTGAGGCACATCC	TGGATGTGCCTCAACCGAAAATGCA
4031	TCCGCTCAATTACCATGCTCGCT	TAGCGAACATGGTAATTGAGCGG
4032	TCTCGGAAAGGTGCAACTTGGTGT	TACACCAAAGTTGCACCTTCCGAG
4033	TAATTGACCAAGCAGAACGTCCCAT	TATGGGACGTTCTGCTGGTCGAATT
4034	TGCCAGAGTCTAACCTCACGGGAT	TATCCCGTAGGTTGAGACTCTGGC
4035	TCCAACAACTGGAACGGAACCCGC	TGCGGGTTCCCGTCCAGTTGG
4036	TGAGAACTGATCGCTGAGGGGCATG	TCATGCCCTCAGCGATCAGTTCTC
4037	TGGCACACTAGACTTGTGGCACCGA	TTCGGGCCACAAGTCTAGTGTGCC
4038	TTCACATCCAAATATGGTCCCGCAA	TTTCGCGGACCATAATTGGATGTGA
4039	TGTCTGCCGGTGTGACCGCTTCATT	TAATGAAGCGGTACACCGGCAGAC
4040	TCATCGCAGAGCATAAACACCCCTCA	TTGAGGGTGTATTGCTCTGCGATG
4041	TGTTGGTATCTATGGCAGAGCGGA	TTCCGCCCTGCCATAGATACCAAC
4042	TACGAGGTGCCGCTGAGGTTCCATT	TAATGGAACCTCAGCGGCACCTCGT
4043	TGGAATGAGTGGACCCAGGCACATT	TAATGTGCCCTGGGCCACTCATTCC
4044	TTGTCATATCGTCCGTGCGTCT	TAGACGACACGGACGCATATTGACA
4045	TTGATGAGCCTCAGGGTACGAGGCA	TTGCCCTCGTACCCGTAGGCTCATCA
4046	TCACCGCGGTGTTCTACAGAACATGA	TTCATTCTGTAGGAACACCGCGGTG
4047	TTTGTGCCAATGGTGTCCGCTCGG	TCCGAGCGGACACCATTGGCAACAA
4048	TTAACCTGCGTCTGCCCTTCCT	TAGGAAAGGGCAGACGCAGGTTAA
4049	TAGGCGCGTCCCTGCCTTAGTGCAG	TCGTCACTAAGGCAGGAACGCGCCT
4050	TTAGGGCGATGGCACGAAGCTTCAA	TTTGAAGCTTGTGCCATGCCCTA
4051	TTGCATAGAGCCAAAGTCGGCGATG	TCATGCCGACTTTGGCTCTATGCA
4052	TTTGAGAGGCAGGTGGCCACACCGGA	TTCCGTGTGGCCACCTGCCCTCAA

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4053	TTCCGCATTGTGAGAAAAACGAGC	TGCTCGTTTTCTCACAAATGCGGA
4054	TGGCGGTTCCGTAGCTATAGGTGC	TGCACTATAGCTACGGAAACCGCC
4055	TGGTGAATTCGTAGCCACGGGC	TGCCCGTGGCTACGAAATTTCAAC
4056	TCCGACGGAGGGATGAAGACAATCAC	TGTGATTGTCTTCATCCCTCCGTGG
4057	TCCAGTTGGCCCAATTGCCAAA	TTTTGGCGAATTGGGCCAAACTGG
4058	TGGATCTATTAGGCCGTGCGCACAG	TCTGTGCGCACGGCTAACAGATCC
4059	TCGGATGTCACC GTTGGACTTCA	TTGAAAGTCCAAACGGTGACATCCG
4060	TATCGCAAATCCTGCTCGTCCCTAA	TTTAGGGACGAGCAGGATTGCGAT
4061	TCAGGGCATGCAATAATCGAGGTT	TGAACCTCGATTATTGCATGCCCTG
4062	TCATGCGTTGATATATGGGCCAAG	TCTTGGGCCCATATATCAACGCATG
4063	TCAGCTGCAGCTTGTGACCAACCAC	TGTGGTTGGTCACAAGCTGCAGCTG
4064	TTTGTATGTCGCCGACCGGGCGACC	TGGTCGCCGGTCGGCAGACATACAA
4065	TGATGGCGCCGTTGATAGGTATGG	TCCATACCTATCAACGGCGCCATC
4066	TATGAGAATGCCGGCAATCTGCTA	TTAGCAGATTGCCGGCATTCTCAT
4067	TATTCGCACTGACCGCAGGCTCGT	TCACGAGCCTGCGGTAGTCAAAT
4068	TCAGGGAGAACGGTTAACGTTCCGT	TACGGGAACCTAACCGTTCCCTG
4069	TAGGCCGGCGATCGAGGAGTTGGT	TACCAAACCTCTCGATGCCGGCCT
4070	TACACGGTGGTCTCTGATAGCGACC	TGGTCGCTATCAGAGACCACCGTGT
4071	TGTGCAACGCCGAGGACTCCATCA	TTGATGGAAGTCCTCGGGTTGCAC
4072	TTCGGTGCCTGATAGCCATTCCGAT	TATCAGGAATGGCTATCAGGCACCGA
4073	TTGAAATACCACACAGCCAATTGGC	TGCCAATTGGCTGTGTGGTATTCA
4074	TGCATCGTGTACATGACTGCCCGA	TTCGCGGCAGTCATGTACACGATGC
4075	TCAGTGTCTAACGGCGCGTGAA	TTTCACGCGCGCCGTTAGAACACTG
4076	TCGCTTGCAACGTTGCACCTACTCT	TAGAGTAGGTGCAACGTTGCAAGCG
4077	TCGAAAAACTAGTGGCTGCCGCG	TCGCGCGAGCCCAGTTTTTCG
4078	TCTTCAGGGAACTGCCGGAGTCG	TCGACTCCGGCAGTCCCTGAAAG
4079	TTTGTGGCCTTCTGTAAAGGCACG	TCGTGCCCTTACAAGAAGGCCACAA
4080	TTCCACGAACGGCGACCGTTGTCT	TAGACAACGGGTCGCCGTGGA
4081	TCGACCTTGACGAAACCTAACGAG	TCTCGTTAGGTTCTGTGCAAGGTCG
4082	TGTGCACTTACAGGCCAGCCTGA	TTCAAGGCTGGCTCGTGAAGCTGCAC
4083	TCGCTTCGTGCGAATAGACGATGA	TTCATCGTCTATTGCAACGAAAGCG
4084	TTGCCTTACAGGCCAGTGGTC	TGACCACTAGGAGCCTGTAAGCGCA
4085	TCACGCGCTTAGTCGCGATCGCATA	TTATGCGATCGCGACTAACGCGCTG
4086	TCGGAGGGAGGGAGCTAGCCTTCGA	TTCGAAGGCTAGCTCCCTCCCTCCG
4087	TGCATCCGGCCTGTTGATGACGCC	TAGGCGTCATCAACAGGCCGGATGC
4088	TAGGCCAATCGATCTTATTGCCGAG	TCTCGGCAATAAGATCGATTGGCCT
4089	TCCTCCAATGATTGCATACGCCCA	TTGGCGTATGCAATCATTGGAAGG
4090	TAACACTTGATCAGGCCGGTGTCT	TAGACGACCCGCCGTGATCAAGTGT

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4091	TTGGAATCAAGGCCGTAAAGGACAG	TCTGTCCTTACGGCCTGATTCCA
4092	TGCTCCCGTAACCTGTCCACCACTG	TCACTGGTGGACAGGTTACGGGAGC
4093	TAGTGGTGAATGGCCGCTACCCCTGA	TTCAAGGGTAGCGGCCATTCAACACT
4094	TTGTTGAAGCGAGCTAAACGGCCA	TTGGCCGTTTAGCTCGCTTCAACA
4095	TCAGCGCTCCAGAATTGACAGCAAT	TATTGCTGTCAATTCTGGAGCGCTG
4096	TTTCGAAGCGCACGTCCCTTTCAA	TTTAAAAGGGACGTGCGCTTCGAA
4097	TAACCGCGGGGAATGGGACATCAA	TTTGTATGTCCTTACCCCCACCGCGTT
4098	TCACGAGATACCGGCCTAAGGGTGG	TCCACCCCTACGCCGGTATCTCGTG
4099	TCTACGGCAAACGTGTGGAATGGGT	TACCCATTCCACACGTTGCCGTAG
4100	TGTAGGGCGATGACGGGCGAACTAC	TGTAGTTGCCGTACGCCCTAC
4101	TAATCGACCTCCGCACACATTGCA	TTGCGAATGTGTGCGGAGGTGATT
4102	TGAGTCAGCATGGCGGCGGAGATT	TGAATCTCCGCCGCATGCTGACTC
4103	TAGATAAAGACGCTGGCAACACGGG	TCCCGTGTGCCAGCGTCTTATCT
4104	TGGTACCTCAACGCGAACCACTTGT	TACAAGTGGTTCGCGTTGAGGTACC
4105	TAAGCGATGGCTACCCAAGAGCGAT	TATCGCTCTGGGTAGCCATCGCTT
4106	TAGAGCTTATGCAGAACCAAGGGGCC	TGGCGCCTGGTTCTGCATAAGCTCT
4107	TATCGGTCTCACGCAGGGTTGGATA	TTATCCAACCCTCGGTGAGACCGAT
4108	TTAGGTTGCCGCCAGAAGAACAT	TATGTTCTTCTGGCGGGAACCTA
4109	TCGGTGCTGTTGCAAAAGCCTGTAG	TCTACAGGCTTTGCAACAGCACCG
4110	TTGATGAAAGTTGCGGCAGGACAC	TGTGTCCTGCCGCAAACCTTCATCA
4111	TGTTGAGTGCAGGATGCAGCGATAG	TCTATCGCTGCATCCTGCACTCAAC
4112	TAACATTGCGCGGTCCACCAAGGGTT	TAACCCTGGTGGACCGCGCAATGTT
4113	TGGGCAGTTAGAGAGGGCCAGAAGT	TACTTCTGCCCTCTTAACGCC
4114	TTCGAGCTGGTCCCCGTAAACGTGT	TACACGTTACGGGGACCGAGCTCGA
4115	TGTCTGGGGGCCGCTTAGTAAAAA	TTTTTCACTAAGCGGCCCAAGAC
4116	TACTGTTGGCTTGCTCATGTCCA	TTGGACATGAGAGCAAGCCAACAGT
4117	TAGGACCATTGGAAAGCGAAGATA	TTATCTCGCCTCCGAATGGTCTT
4118	TCTTGGGAGGCATCCGCTATAAGGA	TTCCCTTATAGCGGATGCCCTCCAAG
4119	TAATAAACGGAACGCACCGCTACAG	TCTGTAGCGGTGCGTCCGTTTATT
4120	TTTGTACGTGCGGTCCCCATAAGCA	TTGCTTATGGGGACCGCACGTACAA
4121	TCGCACCAAACGTAGTTCCCAGAC	TGTCTGGAAACTCAGTTGGTGC
4122	TACCTGATGTTCCCCATTGGAA	TTTCCAATAGGGAACGATCAGGT
4123	TGGAACAGAGGCAGGGGACTGAGC	TGCTCAGTCCCTCGCCTCTGTTCC
4124	TCCCTGCCTTGGCGTGTGGCTTAT	TATAAGCCGACACGCCAAGGCAGGG
4125	TACTCTGACACGCCAACTCCGGAAG	TCTTCCGGAGTTGGCGTGTAGAGT
4126	TCTGACGGTTTCATTGGCGTGCC	TGGCACGCCGAATGAAAACCGTCAG
4127	TTGCGGTGGTTCATGGAGCTGGCC	TGGCCAGCTCAATGAACCACCGCA
4128	TGCATGGCCAACTAGTGACTCGCAA	TTTGCAGTCACTAGTTGCCATGC

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4129	TAGGCCGTAAGCGAATCTCACCTG	TCAGGTGAGATTGCTTACGGCCT
4130	TCGAATATTATGCCGAGAACCGCG	TCGCCGATTCTCGGCATAATATCG
4131	TACAGACGAGCTCCAAACCATGA	TTCATGTGGTTGGAGCTCGTCTGT
4132	TGGACGGTTGTGCTGGATTGTCTG	TCAGACAATCCAGCACAAACCGTCC
4133	TAAAGGCTATTGAGTTGGTGGCG	TCGCCAACCAACTCAATAGCCTT
4134	TGATGGCCTATTCGGAGATCGGGCC	TGGCCCGATCTCGAATAGGCCATC
4135	TGATCCAGTAGGCAGCTCATCCCA	TTGGGATGAAGCTGCCTACTGGATC
4136	TAATAACTCGCGCGGGTATGTTCT	TAGAACATACCGCGCGAGTTATT
4137	TGGAGGAGGTTGTCTCGAAAGCA	TTGCTTCCGAGACAAACCTCCTCC
4138	TCTTGGTATGGCACATGCTGCCG	TCGGGCAGCATGTGCCATACCAAAG
4139	TAGAAAGGCTCGAGCAACGGGAAC	TAGTCCCCTTGCTCGAGCCTTCT
4140	TAATCTACCGCACTGGTCCGCAAGT	TACTTGGGACCAGTGCAGTAGATT
4141	TCGTGGCGGCCACAGTTTGGAGG	TCCTCCAAAAACTGTGGCCGCCACG
4142	TTTGCAGTTCAATCCATACGACGT	TACGTGCGTATGGATTGAAC TGCAA
4143	TGGCCCAAAGCCCCAGACCATTAA	TTAAATGGTCTGGGGCTTGGGCC
4144	TCGCCTGCTTGTCTCCGGACAAT	TATTGTCGGAGACAAAGACAGGCG
4145	TTGAGGCAACAGGGGCCAAAAACTA	TTAGTTTGGCCCTGTTGCCTCA
4146	TAGCGGAAGTAGTCCTCGGCTCGTC	TGACGAGCCGAGGACTACTCCGCT
4147	TGGCCCCAAGGCTTAGAGATAGTGG	TCCACTATCTCTAACGCTTGGGCC
4148	TGACGTGAAGTTAACCGCGATT	TGAATCGCGTTAAACTCACGTGC
4149	TAGCGGCAGAACGTTCTTGACGG	TCCGTCAAGGAACGTTCTGCCGCT
4150	TTCGTCGAGCAGACGAGATTGACG	TCGTGCAATCTCGTCTGCTCGACGA
4151	TTCTTGCCCGTAACTGACTGCTT	TAAGCAGTCAGTTACGCGGAAAGA
4152	TTTTATGTGCCAAGGGGTTAACGA	TTCGGTTAACCCCTGGCACATAAA
4153	TTGTTACTGTGGTTACGGCAGTCC	TGGACTGCCGTGAACCAACAGTAACA
4154	TCGCGCCTCGCTAGACCTTTATTG	TCAATAAAAGGTCTAGCGAGGCGCG
4155	TACAAATGCGTGAGAGCTCCAACT	TAGTTGGAGCTCTCACGCATTGT
4156	TCGCGCAGATTATAGACCGAATGT	TACATTGGGTCTATAATCTCGCG
4157	TCAAATAACGCCGCTGAATCGCGT	TACGCCGATTCAAGCGCGTTATTG
4158	TCCTCGTGCATCGGTGATGATGTT	TAACATCATACCGATGCACGAAGG
4159	TTGAACACGAGCAACACTCCAACGC	TGCGTTGGAGTGTGCTCGTGTCA
4160	TCAGCAGATCCTCGTAGCGGTG	TACGACCGCTACGAAGGATCTGCTG
4161	TGGAACCTGGTGAGTTGTGCCTCAT	TATGAGGCACAACTCACCAAGGTTCC
4162	TTCATAAGCGACAATCGGGCTTA	TTAACCCCGCATTGTCGCTTATGA
4163	TCCCAACGTCACTGAAGCTCACAGT	TACTGTGAGCTTCAGTGACGTTGGG
4164	TTGTCAGAGCCCGCGACTCAGACGG	TCCGCTGAGTCGCGGGCTTGACA
4165	TTACACGAAGCCTCTCCGTGGTCCA	TTGGACCACGGAGAGGCTTCGTGTA
4166	TCTCAGAAGTCCTCGCGAAGCTGGG	TCCCAGTTGCCGAGGACTTCTGAG

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4167	TATCCTTTATCTACTCCGCGGCGA	TTGCCGCGGAGTAGATAAAAGGAT
4168	TAGGCGTGCAGCAACAGGATAAAC	TGGTTTATCCTGTTGCTGCACGCCT
4169	TACTCTCGAGGGAGTCTCTGGCACA	TTGTGCCAGAGACTCCCTCGAGAGT
4170	TTGCCAGGTCCATCGAGACCTGTT	TAACAGGTCTCGATGGACCTGGCAA
4171	TTCCACTATAACTGCCGGTCCGTGT	TACACGGACCCGAGTTATAGTGGA
4172	TGCCAGTCGGCTCAACAAGTCG	TCGAACTTGTTAGAGCCGACTGGC
4173	TCGGAACGGATAATCGCGTCAGGT	TACCTGACGCCGATTATCCGTTCCG
4174	TTAAAATAAGGCCCTGGCGGGAGGA	TTCCCTCCGCCAGGCGCTTATTTA
4175	TGCGCACTCGTGAACACCTTCTCGC	TGCGAGAAAGGTTCACGAGTGC
4176	TAGTTGCCAGGTACTGGCAAGTGC	TGCACTGCCAGTACCTGGCAAAC
4177	TACAACGAGGGATGTCCAGCGGCAT	TATGCCGCTGGACATCCCTCGTTGT
4178	TTTCGCAAGCACCGCTAGGTACAGT	TAUTGTACCTAGCGGGTGCTGCGAA
4179	TTAACCCGATTTTGCAGCTCGCC	TGGCAGAGTCGCAAAATCGGGTA
4180	TCGTCGATTGCAAGCGTAGGCTTG	TCAAGCCTACGCTTGCAATGCGACG
4181	TGAGCTGACGTCACCATCAGAGGAA	TTTCCTCTGATGGTGACGTCAGCTC
4182	TGGAGGCTGGGGTCGCGCTTAAGT	TAUTTAAGCGCGACCCCCAGCCTCC
4183	TTTGTGGGAACCGCACTAGCTGGCT	TAGCCAGCTAGTGC
4184	TCCCTCGCACTGTGTTCACCTCTT	TAAGAGGGTAAACACAGTGCAGGG
4185	TTCATTGACTCGAACCGCACACG	TCGTTGTGCGGATTGAGTCAATGA
4186	TACAGGGTTGGCCTCGTACGTAC	TGTACGTACGAAGGCCAACCCCTGT
4187	TAGGCCGTGCAACATCACACAGGAT	TATCCTGTGTGATGTTGACGGCCT
4188	TGGGCCGTGGTCACGTAATTGGC	TGCCAATATTACGTGACCAACGGCCC
4189	TGCGCGGACATGAAACGACAAGGCC	TGGCCTGTCGTTCATGTCCGCGC
4190	TCTTATTGGGTGCCGGTGTGGATT	TAATCCGACACCGGCACCCAATAAG
4191	TGGGGCGGTTACCAAAAAATCCGAT	TATCGGATTTTGGTAACCGCCCC
4192	TCCGTCGCATACCGCTACGATCAA	TTTGATCGTAGCCGGTATGCGACGG
4193	TATGGCCGTGCTGGGACAAGTCAA	TTTGACTTGTCCCCAGCACGGCCAT
4194	TACGAAAAAAGTGTGCGGATCCCCT	TAGGGGATCCGCACACTTTTCGT
4195	TCCAAGTACACCGCACGCATGTTA	TTAACATGCGTGC
4196	TATCGTGC	
4197	TTCCAGATAACGCCCGAAC	
4198	TTCTGCTGGCAGCACGTGAAGTGGC	
4199	TTTGAATTGCTCTGCCGTAGTC	
4200	TAGTCAGGGAGATGTTCAAGGCAGC	
4201	TACAAGCCGACGTTAAGCCGCCA	
4202	TCCCTAATGAGGCCAGTAACCTGCA	
4203	TGTGAGACACACATCCCCTCCAATG	
4204	TCGACGGATGCAAGAGTTCA	

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4205	TCCCGCATGCCTGGCGGTATTACAA	TTTGTAAATACGCCAGGCATGCAGG
4206	TTTAGCAAAGCGGCCGCTTAGCAA	TTTGCTAACGGCGCCGCTTGCTAA
4207	TCCCGACACGGGTCAAGCGTAATAAT	TATTATTACGCTGACCCGTGTCGGG
4208	TGCGACGGCCCTGAGGTATGTCGTC	TGACGACATACCTCAGGGCCGTGCG
4209	TCAAAAGTGTGTTCCCTTGCCTTG	TCAAGCGCAAGGGAACACACTTTG
4210	TTCTCGAAGCACAGCCCGTTATTG	TCAATAACCGGGCTGTGCTTCGAGA
4211	TATGCTAACCGTTGCCATGGAACCT	TAGTTCCATGGCCAACGGTTAGCAT
4212	TCTTGCAGGAGTGTAGCCAGCGGT	TACCGCTGGGCTAACACTCCGCAAG
4213	TTGCTCCCTAGGCGCTCGGAGGAGT	TAACCTCCGAGCGCCTAGGGAGCA
4214	TCCAATGCCTTGAGTAAGCGATGG	TCCATCGCTTACTCAAAGGCATTGG
4215	TAGCAGATAACGTCCAATGACGCC	TGGCGTATTGGGACGTTATCTGCT
4216	TTTGACCATTACGTGTTGCCTCCAT	TATGGGCAGAACACGTAATGGTCAA
4217	TTCGCGTATTGCGGAATTGCGCTG	TCAGACGAATTCCGAAATACGCGA
4218	TCTCGGTGTCAACAATGTCCCGCAG	TCTGCGGGACATTGTTGACACGCAG
4219	TTCTGGTGCCACGCAAGGTCCACAG	TCTGTGGACCTTGCCTGGCACCAGA
4220	TCTCCGGGAGGTCACTTAATTGCGG	TCCGCAATTAAAGTGACCTCCGGAG
4221	TTTTTCGTGATTGCCCGGAGGAGGC	TGCCTCCTCCGGCAATCACGAAAA
4222	TTCGGGATGTAGCTGGGGCTACCGG	TCCGGTAGCCCCAGCTACATCCCGA
4223	TCGAGCCAACGCAAACACGTCTTG	TCAAGGACGTGTTGCCTGGCTCG
4224	TGCAAAGCCTTGTGGGGCGGTAGT	TAATCAGCCCCACAAAGGCTTGC
4225	TATTGACCGGAAATGAGGTCTCG	TCGAAGACCTCATTCGGTCAAT
4226	TTTCGCTTGTGAGTTGCTCTGTT	TGAACAGAGCAACTCAGCAAGCGAA
4227	TCGCGTAAAGACCCCATTCCCGAGT	TAATCGGGAAATGGGTCTCACGCG
4228	TAACCGTATTGCGGTCACTGTGG	TCCACAAGTGACCGCGAATACGGTT
4229	TGGGGCCAACGTTTCGAGGCGTAT	TATACGCCCTGAAACGGTTGGCCCC
4230	TTTCGGCTGGCAGTCCAACCGCTT	TAAGCCGTTGGACTGCCAGCCGAA
4231	TGGGTGTGGTTAGAATGCACGGTC	TGAACCGTGCATTCTAACACACCC
4232	TGCGAGGACCGAAGTACAGACAAACGG	TCCGTTGTCTAGTTGGCTCCTCGC
4233	TACGCACCGGTGACCGAAGTTGCTG	TCAGCAACTTCGGTCACCGTGCCTG
4234	TTAAAAGGTGCTTGAAAGGGGA	TTCCCCCTTCAAAGCGACCTTTTA
4235	TTGCGATCGCTAACTGCTGGACAA	TTTGTCCCAGCAGTTAGCGATCGCA
4236	TGGAGGTATAAGCGGAGCGGCCCTA	TTGAGGCCGCTCCGCTTACCTCC
4237	TATGCTGACATGTCGTGCACCTCGT	TACGAGGTGCACGACATGTCAGCAT
4238	TTGTGGTTAAAGCGTCCGTTCAACG	TCGTTGAACGGACGCTTAACCACA
4239	TCGTTCACACCGGCGTAAGCTGCGT	TACGCAGCTTACGCCGGTGTGAACG
4240	TCCTATCCGGCGAGAACTTCTGTG	TCACAGAAGTTCTCGCCGGATAGG
4241	TGTCTGCACTCACGCAAGCGGAGGGA	TTCCCTCCGCTGCGTGAGTCAGAC
4242	TGCACGAGTTGGTGCTCGGCAGATT	TAATCTGCCGAGCACCAACTCGTGC

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4243	TAACGTCGACGACACACGTTCGTC	TGACGAACGTGTGTCGACGTT
4244	TATGCGCGCTTATCCTAGCATGGTC	TGACCATGCTAGGATAAGCGCGCAT
4245	TTCACGTTTCGTCTGACATGAGG	TCCTCATGTCGAGACGAAAACGTGA
4246	TTGTGCCTCATCCTTAGGATACGGC	TGCCGTATCCTAAGGATGAGGCACA
4247	TAGGTGGTGTGGGTCAACCGCTTA	TTAAAGCGGTTGACCCACACCACT
4248	TCTGGATCGAAGGGACTGCAAGCTC	TGAGCTTGCAGTCCTCGATCCAG
4249	TTAGATCAACTCGCGTACGCATGGA	TTCCATGCGTACGCGAGTTGATCTA
4250	TGATCCTGCGGAGAAGAGAGTGCAG	TCTGCACTCTCTCCGCAGGATC
4251	TTACGTGTGGAGATGCCCCGAAACG	TCGGTTGGGGCATCTCACACGTA
4252	TGCGCTATGTCATCGTGGCGTAG	TCTACGCCACGATTGACATAGCGC
4253	TAGCGAGGTTCTAGCGTCGACACC	TGGTGTGACGCTAGAAACCTCGCT
4254	TACCCAGGTTTGCCGTTGTGGAAT	TATTCCACAAACGGCAAAACCTGGGT
4255	TCCCTGTTAACGGCTGCGTAGTC	TGAGACTACGCAGCCGTTAACAGGG
4256	TAGGCCGATTCACCCGCCATTGC	TGCAATTGGCGGGTGAAATCGGCCT
4257	TGAGCCCTACTCCTGCCCTTGA	TTCAAAGGGCAAGGAGTGAGGGCTC
4258	TGGGTGGACATCCGCCCGCAGTCA	TTGACTGCGAGGCGGATGTCCACCC
4259	TGATGGCTGAGAACCGTGCTACGAT	TATCGTAGCACGGTTCTCAGCCATC
4260	TTCGACGTTAGGAGTGCTGCCAGAA	TTTCTGGCAGCACTCCTAACGTCGA
4261	TCGAATGGGCTGGACCTTGCACTAG	TCTATGCAAGGTCCAGACCCATTG
4262	TGTGCACCAGACATTGAACTCGGA	TTCCGAGTTCGAATGTCTGGTGCAC
4263	TAGAGGCCCCGTATATCCCATTCCAT	TATGGATGGATATACGGGGCTCT
4264	TAACGCCTGTTCAGAGCATCAGCGG	TCCGCTGATGCTCTGAACAGGCCTT
4265	TAAGGCTAACACGCCTATGTGCGC	TGCGCACATAGGCCTGTTGAGCCTT
4266	TAGTCCTGTTGCCAGATTGGCTCG	TCGAGCCAATCTGGCAACACGGACT
4267	TATGTCCCAGTAAAGACGCGTGTG	TCACACGCGTCTTACATGGACAT
4268	TATGGAGTCTGCTCACGCCAAAGG	TCCCTTGGCGTGAGCAGACTCCAT
4269	TCGGCCTCCAACAAGGAGCACTAAC	TGTTAGTGTCCCTGTTGGAGGCCG
4270	TCAGAGCCGTGGAACATTGCGAGC	TGCTCGCAATGTTGCCACGGCTCTG
4271	TTCATTTGAATGAGGTGCGCACCGG	TCCGGTGCACCTCATTCAAATGA
4272	TGACGTACCGGAAGCGCCGTATAAA	TTTATACGGCGCTTCCGGTACGTC
4273	TATGCGAGCAATGGATCCGGATTC	TGAATCCGGATCCCATTGCTCGCAT
4274	TAGAGTGGCCTCCCTGACCAAGTG	TCACTGGTCAGGGAGGCCTCACTCT
4275	TCGCACCGTAAGTAGATTGCCGC	TGCGGGCAAATCTACTACGGTGCG
4276	TTGAACCTTGAGCACGTCGTGCGC	TGCGCACGACGTGCTCAAAGGTTCA
4277	TTCCGCCTTTGGTACCTCGAAG	TCTTCGAGGTAACCAAAAGGCGGA
4278	TGAACGCCAACGGCACTAACACATC	TGATGTGTTAGTGCCTGGCGTTC
4279	TCCGACAGCAGCCAAGACGTCCCAG	TCTGGACGTCTGGCTGCTGTCGG
4280	TCATAAAAAACCTGGGCTCTGCG	TCGCAGAGCCCCAGGTTTTTATG

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4281	TTGCCAACTGTGCAGACCGGACTTA	TTAAGTCCGGTCTGCACAGTTGGCA
4282	TGGCGAAAGAGCGAAACCGGCTCGT	TACGAGCCGGTTCGCTCTTCGCC
4283	TGGGATGCGTATTTAGCGAACACG	TCGTGTTCGCTAAAATACGCATCCC
4284	TTGGGATTAGCGACCAGTACGCGA	TCGCGTACTGGTCGCTGAATCCCA
4285	TCCCGATATTGCCCGGCCTATTG	TCGAATAGGCCGGCGAATATCGGG
4286	TCGAGAAAGATGCCCTACGCAACCAA	TTTGGTTGCGTGAGGCATCTCTCG
4287	TAACCTGACCCGTTGGATGACGCTA	TTAGCGTCATCCACGGGTCAGGTT
4288	TTTGCAACGGGCTGGTCAACGTCAA	TTTGACGTTGACCAGCCC GTGCAA
4289	TCGCATAGGTTGCCGATTCGTCAA	TTTGACGAAATCGGCAACCTATGCG
4290	TGCTTCCGGATGAACGGGATGGTTG	TCAACCATCCC GTTATCCGGAAAGC
4291	TCCCTCCATGTTCTCGAACGGTTT	TAACCGTTCGAAGAACATGGAGGG
4292	TTTGATGGCGGCAATGCTCTTGCT	TAGCAAGAGCATTGCCGCCATCAA
4293	TATTGTGAGATGCGCAAATCCCC	TGGGGAATTGGCGCATCTCACAAAT
4294	TTCAGCACAGCCAGACGGTCAACTT	TAAGTTGACCGTCTGGCTGTGCTGA
4295	TACTCCACTCCTCGGTGGCAAACTA	TTAGTTGCCACCGAGGAGTGGAGT
4296	TTCTGGGCATGCCCTGGACGGAGACG	TCGTCCTCGTCCAGGCATGCCAGA
4297	TTCTCAACTCCGGTACGACGAAACA	TTGTTCGTCGTACCGGAGTTGAGA
4298	TTTGC GTGGTCAAAGGCGAACGTG	TCACGTTGCCCTTGACCA CGCAA
4299	TAGACAGCGATCCGGGCTCATGAT	TATCATGAGCCGCGGATCGCTGTCT
4300	TCGCGTCTCTAACTGAGAGCAGCCA	TTGGCTGCTCTCAGTTAGAGACGCG
4301	TAGGCGCACATGTACGGACATTCA	TCTGAATGTCCGTACATGTGCGCCT
4302	TGATGAGTGGCACGTGGTGTAA	TTTACACACCGACGTGCCACTCATC
4303	TTGATCCATATTGTCGGACGTTGCG	TCGCAACGTCCGACAATATGGATCA
4304	TACCTGCCGGAGTTCATAGGCTAG	TCTAGCCTATGAACTCCGGCAGGT
4305	TAGCATTGGCGTTTCCGCAACGA	TTCGTTCGGAAAAACGCCAATGCT
4306	TGGTAATATTAGCGCGACCGCTCA	TTGAGCGGT CGCGCTGAATATTACC
4307	TATAGCGTACGACGAGGTGACGCGC	TGCGCGTCACCTCGTACGCTAT
4308	TTAGGTACGATGCGTTGACGCTA	TTAGCGTCAAACGCATCGTGACCTA
4309	TACTGCCGTACCTCTGGTTCTGGC	TGCCAGAACCAAGAGGTACGGGCA
4310	TCCTTGGCCTGAAGTTGCGTAGC	TGCTACGACAACCTCAGGCCAAGG
4311	TGTGCCAACGAGCGTATCGTTGTA	TTACAACGATACGCTCGTGGGGCAC
4312	TAGGCGCTACGTGGCCTGGAGCAA	TTTGCTCAGGCCACGTAGCGCCT
4313	TGGGTGCTACCATG CATTAGTCCG	TCGGACTAATGCAATGGTAGCACCC
4314	TACCA CGCGCGTACGTGAACCGAG	TCTCGGTTACACGTACGCGCGTGG
4315	TCCATGATGCATTGGGTGCATTAG	TCTAAATGCACCCAATGCATCATGG
4316	TGGTCCGGCCCTACGAAACGTTCGA	TTCGAACGTTCGTAGGGCCGGACC
4317	TCCGTGTGGCTGGAGATTGCGTGA	TTCACACGAATCTCCAGCCACACGG
4318	TGTTAGGGCGACGCATATTGGCACA	TTGTGCCAATATGCGTCCCTAAC

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4319	TGGGTCAGTCAGGTGCGTAGGATC	TGATCCTAACGCACCTGACTGACCC
4320	TGCCGTGAAGTCGAATGCAGATCGA	TTCGATCTGCATTGACCTCACGGC
4321	TGCCACCACCCAGTGCATTAGGTA	TTACCTGAATGCACTGGGTGGTGGC
4322	TGAGCTTAGTTGCCGGTCATCGGGC	TGCCCGATGACCGCAAACTAAGCTC
4323	TTGTTGCCGCCATTAGGGAGTAAC	TGTTACTCCCTAATGGCGGCAAACA
4324	TGCTCCGCTGGATGTGCCGGTTAG	TCTAAACCGGCACATCCAGCGGAGC
4325	TCGGTAGCATGCGAGATCCCTGTTA	TTAACAGGGATCTGCATGCTACCG
4326	TCTACGCTTACCAAGTTGCCCTGCGA	TTCGCAGGCAACTGGTAGAGCGTAG
4327	TGTGCCTCCTGCTGTATTGCCAAG	TCTTGGCAAATACAGCAGGAGGCAC
4328	TTTGCAGACTCGACTTGGACGAGTAG	TCTACTCGTCCAAGTCGAGTCGCAA
4329	TTCTGGGAGCTGTTACTCCAGCCA	TTGGCTGGAGTAAACAGCTCCCAGA
4330	TTGCACGCCAACCTCCCTTACCAT	TATGGTAAAGGGAGTTCCCGCGTGCA
4331	TTGGCAGCAAATGAATCGAAAGCAC	TGTGCTTCGATTCAATTGCTGCCA
4332	TAACTGGTGACGCCGTACAGCGAAG	TCTTCGCTGTACCGCGTCACCAGTT
4333	TAGACGATTACGCTGGACGCCGTG	TCGACGGCGTCCAGCGTAATCGTCT
4334	TATGCCCTCCTCATGGAAAGGGTT	TAACCCCTTCATGAAGGAGGGCAT
4335	TATTCTCGGAGCGTATGCCAGAA	TTTCTGGCGCATACGCTCCGAGAAAT
4336	TATAGCGGAGTTGGGTACCGGAAC	TGTTCGCGTACCCAAACTCCGCTAT
4337	TACCTACGCATACCGCTTGGCGAGG	TCCTCGCCAAGCGGTATCGTAGGT
4338	TGATTACCTGAATGCCAAGCGAGC	TGCTCGCTGGCCATTAGGTAATC
4339	TCCTGTTAGCATCACGGCGCTTAGG	TCCTAAGCGCCGTGATGCTAACAGG
4340	TCGGAATGATGCGCTCGACAACGCT	TAGCGTTGTCGAGCGCATCATTCCG
4341	TTGAGAGAGGCCTGGTTAAGGCAA	TTTGCCCTAACCAACGCCCTCTCA
4342	TAAGCAGGCGAAGGGATACTCCCG	TCGAGGAGTATCCCTCGCCTGCTT
4343	TTCACGACAGACGGCCGAGATTAC	TGTAATCTCGGCCCCTGTCGTGA
4344	TAAGCAATTGGCCTCGTTGTGA	TTCACAAAACGAGGCCAAATTGCTT
4345	TGCTGGTTGCCGGTAGGATCGCATAT	TATATCGATCCTACCGCAACCAGC
4346	TTTGTGAATCCGTTCTGCCCCGAC	TGTCGGGGACAGAACGGATTACCAA
4347	TTGGGCTCCTCTGAGGCAGAGATGGC	TGCCATCTCGCCTCAGAGGAGCCCA
4348	TGGATAGAGTGAATCGACCGGCAAC	TGTTGCCGGTCGATTCACTCTATCC
4349	TTGCACCGAACGTGCACGAGTAATT	TAATTACTCGTGCACGTTGGTGCA
4350	TGCCAGTATTCTGGGTGTTGGACG	TCGTCCAACACCCGAGAATCTGGC
4351	TTCGCTACCTAACGACCGGCCATAC	TGTATGGCCCGGTCTAGGTAGCGA
4352	TTGGCATTGACGAGCAGCAGTCAGT	TACTGACTGCTGCTCGTCAATGCCA
4353	TCGGCGTCCCAGCGCCCTGGAGTAT	TATACTCCAAGGGCGCTGGACCGCG
4354	TATGAAGCCTACCGGGCGACTTCGT	TACGAAGTCGCCCGGTAGGCTTCAT
4355	TCCAGACAGATGCCCTGGAACCATG	TCATGGTCCAGGCCATCTGTCTGG
4356	TTGGCGTGGGACCATCTCAAAGCTA	TTAGCTTGAGATGGTCCCACGCCA

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4357	TCCGCATGGAACACGTGTCAAGGT	TACCTTGACACGTGTTCCATGCGG
4358	TGCCCACTCGTCAGCTGGACGTAAT	TATTACGTCCAGCTGACGAGTGGC
4359	TATTACGGTCGTGATCCAGAAAGCG	TCGCTTCTGGATCACGACCGTAAT
4360	TTGCGAGGTGAGCACCTACGAGAGA	TTCTCTCGTAGGTGCTCACCTCGCA
4361	TGGGCCGCATTCTGATGTCCATT	TGAATGGACATCAAGAATGCGGCC
4362	TCCTCGGATGTGGCTCTCGCCTAG	TCTAGGCAGAGGCCACATCCGAGG
4363	TTAGGCATGTTGGCGTAGGCCTAT	TATAGCGCTACGCCAACATGCC
4364	TCGATACGAACGAGGATGTCCGCCT	TAGGCAGACATCCTCGTTCGTATCG
4365	TTACGCCGGTTAGCACGGTGCCTA	TTAGCGCACCGTGTAAACGGCGTA
4366	TCATACGATGTCCGGGCCGTGTCGC	TGCGACACGGCCGGACATCGTATG
4367	TATCCGCAGTTGTATGGCGCGTTAT	TATAACGCGCCATACAACGTGGAT
4368	TGGGTAAGGGACAAAGATGGATGG	TCCATCCCATCTTGTCCCTTACCC
4369	TATTGGAGTGTGTTGGTGAATCCGC	TGCGGATTACCAAAACACTCCAAT
4370	TGAACCGAGCCAACGTATGGACACG	TCGTGTCCATACGTTGGCTCGGTT
4371	TGCCGTCAAGCTTAAGGTTGGGC	TGCCCAAAACCTTAAGCTTGACGGC
4372	TACCTGCTTGGGTGGGTGATATG	TCATATCACCCACCCAAAAGCAGGT
4373	TAATCGTGGCGCAGCAAACGTATA	TTATACGTTGCTGCGCCACGATT
4374	TGTCGCCGGATTGCTCAGTATAAGC	TGCTTATACTGAGCAATCCGGCGAC
4375	TACCCGTGATGCTCCTCCTCAGA	TTCTGAGGAGGAAGCATCGACGGGT
4376	TATCCGGGTGGCGATAACAAGAGAT	TATCTTGTATCGCCCACCCGGAT
4377	TTTCCGCATGAGTCAGCTTGAAAAA	TTTTCAAAGCTGACTCATCGGGAA
4378	TGCAAAGTCCCACGGCAAGCCGAT	TATCGGTTGCCAGTGGACTTTGC
4379	TCGACCTCGGCTCATCGTACACAT	TATGTGTACGATGAAGCCGAGGTG
4380	TCTCATGAGCGCAGTTGTGCGTGAG	TCTCACGCACAACGTGCGCTATGAG
4381	TCAGATGAAGGATCCACGGCCGGAG	TCTCCGGCGTGGATCCTTCATCTG
4382	TTCAAAGGCTTGGATACAGCCGT	TACGGCTGTATCCAAGAGCCTTGA
4383	TTCCGCTAATTCCAATCAGGGCTC	TGAGCCCTGATTGAAATTAGCGGA
4384	TCCGTTGCGGTGTCCTGCTCAA	TTTGAGCAAGGACGACCGCAAACGG
4385	TTTCGCTTCGTGGCTGCACTCAA	TTTGAAGTGCAGCCACGAAAGCGAA
4386	TCTTAGTTGGGCGCGGTATCCAGA	TTCTGGATACCGCGCCCCAACTAAG
4387	TGCTCTAATGCCGTGGAGTCGGAAC	TGTTCCGACTCCACGGCATTAGAGC
4388	TCCGATTACAAATTGACTGACCGCA	TTGCGGTAGTCATTTGTAATCGG
4389	TAGACGTACGTGAGCCTCCGTGTC	TGACACGGGAGGCTACGTACGTCT
4390	TAATGGAGCGATACGATCCAACGCA	TTGCGTTGGATCGTATCGCTCCATT
4391	TGGAGGCGCTGTACTGATAGGCGTA	TTACGCCTATCAGTACAGCGCCTCC
4392	TTGTTTTGAATTGACCACACGGGA	TTCCCGTGTGGTCAATTAAAAACA
4393	TCATGTCTGGATGCGCTCAATGAAG	TCTTCATTGAGCGCATCCAGACATG
4394	TGCCCGCTAATCCGACACCCAGTT	TAAACTGGGTGTCGGATTAGCGGGC

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4395	TCCATTGACAGGAGAGCCATGAGCC	TGGCTCATGGCTCTCCTGTCAATGG
4396	TGAATCACCGAATCACCGACTCGTT	TAACGAGTCGGTATTGGTATTG
4397	TAACCAGCCGAGTAGCTACGTG	TCGACGTAAGCTACTGCGGCTGGTT
4398	TTTTCTGAGGGACACGCCGGCGTT	TAACGCCCGCGTGTCCCTCAGAAAA
4399	TGGTGCTCCGTTGATCGATCCTCC	TGGAGGATCGATCAAACGGAGCACC
4400	TCCGCTTAGGCCATACTCTGAGCCA	TTGGCTCAGAGTATGGCCTAAGCGG
4401	TTAAGACATACCGACGCCCTGCCT	TAGGCAAGGGCGTCGGTATGTCTTA
4402	TGTTCCCGACGCCAGTCATTGAGAC	TGTCTCAATGACTGGCGTCGGGAAC
4403	TTAAAAGTTTCGCGGAGGTGGGCT	TAGCCGACCTCCGCGAAACTTTA
4404	TCGGTCCAGACGAGCTGAGTCGGC	TGCCGAACTCAGCTCGTCTGGACCG
4405	TCGGCGTAGCGGCTACGGACTAAA	TTTTAAGTCCGTAGCCGCTACGCCG
4406	TGCTTGGATGCCATGCGGCAAGGT	TACCTGCCGCATGGGATCCAAGC
4407	TAGCGGGATCCCAGAGTTCGAAAAA	TTTTTCGAAACTCTGGGATCCCCT
4408	TGAGCTTGAGAGCGAGGTACCTC	TGAGGATGACCTCGCTCTCAAGCTC
4409	TGCATCGGCCGTTTGACCATATT	TGAATATGGTCAAACGGCCGATGC
4410	TCATAGCGCTGCACGTTGACCGC	TGCGGTCGAAACGTGCAGCGCTATG
4411	TACCCGACAAACCACCAATTAAAAA	TTTTTGAAATTGGTGGTTGTCGGGT
4412	TGCGAACACTCATAAGAGCGCCCTG	TCAGGGCGCTTATGAGTGTTCGC
4413	TCCGCCGAGTGTAGAGAGACTCCGA	TTCGGAGTCTCTACACTCGGCGG
4414	TGACATCGGGAGCCGGAAACATGAG	TCTCATGTTCCGGCTCCGATGTC
4415	TTCGTGTAGACTCGGCACAGCGT	TACGCCCTGCGCCGAGTCTACACGA
4416	TATGCGCATATACTGACTGCGCAGG	TCCTGCGCAGTCAGTATATGCGCAT
4417	TACAAGCGAACCCGAGTTGATGA	TTCATCAAAACTCGGGTTGCTTGT
4418	TGCATGAGACTCCGCGAACATGT	TACATGTTCCGCGGAGTCTCATGC
4419	TTCCATACATGCGCCTCACGATCAC	TGTGATCGTACGCGACATGTAGGA
4420	TGACCGATCGCGAACGTGTCACACAT	TATGTGTACGACTTCGCGATGGTC
4421	TGTCGCCAGGACTGGGCCATGTGA	TTCACATCGGCCAGTCTGGCGAC
4422	TACCGATAAGACTTGCATCCGAACG	TCGTTGGATGCAAGTCTTATCGGT
4423	TTCCATAACCAGTCCGAAGTGCCGG	TCCGGCACTTCCGACTGGTTATGGA
4424	TACGCGCCCTGCATCTGTATTAA	TTTAAATACGAGATGCAGGGCGCGT
4425	TGACCGCATCAATTGGCGCGTACC	TGGTACGCGCCAATTGATGCGGTCT
4426	TAGAGGCTTGGCAAGTAGGGACCCCT	TAGGGTCCCTACTGCCAACGCTCT
4427	TGCAATGGACGCCAGACGATACCGG	TCCGGTATCGTCTGGCGTCCATTGC
4428	TGCTGGACTTAGTCGTGTCGGCGG	TCCGCCGAACACGACTAAGTCCAGC
4429	TAGGCATCGTGCCTGGATTGCTCCCT	TAGGGAGCAATCCGGCACGATGCCT
4430	TTGCGCATGTCGACGTTGAACAAAG	TCTTTGTTCAACGTCGACATGCGCA
4431	TTTCGGGTACATCCGATGCCATAC	TGTATGGCATCGGATGTGACCCGAA
4432	TACCCATGCCGGAAAGCGATGTTG	TCAACATCGCTTCCGGCGATGGGT

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4433	TAAGCGCTGACTCGGCTAAGAATCA	TTGATTCTTAGCCGAGTCAGCGCTT
4434	TACTTCCAAGTCCTGACCGTCCGA	TTCGGACGGTCAAGGACTTGGAAAGT
4435	TTCTCAATATTCCCGTAGTCGCCA	TTGGGCGACTACGGGAATATTGAGA
4436	TAACAGTTCCCTTTTCCCTGGCGC	TGCGCCAGGAAAAAGAGGAACGTGTT
4437	TCGTCCATGTTGTCACGAACAG	TCTGTTGTCGACAACATGGAGGACG
4438	TTGCGCAGACCTACCTGTCTTGCT	TAGCAAAGACAGGTAGGTCTGCGCA
4439	TATGGACGGCTTCGAGTCCTCCCT	TAAGGAGGACTGCGAAGCCGTCCAT
4440	TTGAACGCTTCTATGGGCCACGTA	TTACGTGGCCCATAGAAAGCGTTCA
4441	TTGAACCTGCCGAGCGATAACC	TGGTTATCGCTCGCGCAGGGTTCA
4442	TGTTCTTGCAGATGAATCAGGACC	TGGTCTGATTCATCGCGAAGAAC
4443	TAGGGTACGTGTCGAGCTCGCGT	TACGCGAAGCTGCGACACGTACCT
4444	TACCCCTGCTCCGCATGTCTCTCA	TTGAGAGACATGGCGGAGCAAGGGT
4445	TGGGACAAGGATTGAAGCTGGCGTC	TGACGCCAGCTCAATCCTGTCCC
4446	TTGTCGTTGCTCCCGAGTACCAATTG	TCAATGGTACTCGGGAGCAACGACA
4447	TGTTGTCGAGACGTTGTGTCAGC	TGCTGACACAAACGTCTCGGACAAC
4448	TGCTGGTAAACACTCACGAACCGCT	TAGCGGTTGAGTGTTCACCAGC
4449	TGCAGACAGGGCAAATCGGTGAAA	TTTGCACCGATTGCCCTGTCTGC
4450	TCCCACACAAACGAGTGGCGACTTT	TAAAGTCGCCACTCGTTGTATGGG
4451	TGCTTCTACAGCTGGCGTAGCG	TCGCTAGCACGCCAGCTGTAGAAC
4452	TGAATGTGTCGGACCATTCTAGCC	TGGCTAGAATGGTCGGCACACATT
4453	TCCAGCGGAAGTTAGAGCTCTGTGG	TCCACAGAGCTCTAACTCCGCTGG
4454	TTTTTACCGACCACCTCCATGTGCG	TCCGACATGGAGTGGTCGGAAAAAA
4455	TGCGGCTATGTGATGACGGCTAGC	TGCTAGGCCGTACACAGCCCGTGTACT
4456	TAGTACACGGCGTGTAGCGCTCC	TGGAGCGCTAACACGCCCGTGTACT
4457	TTCCTGTGTTGGCGCACTCCCAC	TGTGGGAGTGCGCCACACAGGA
4458	TCCAACTAACCAATCGCGCGGATGA	TTCATCCGCGCGATTGGTTAGTTGG
4459	TAGTGAGTACCAAGGCAGGAGCAA	TTTGCTCCTGCCCTGGTCACTCACT
4460	TCATCTTCGCGGAGTTATTGCGG	TCCGCAATAAAACTCCGCGAAAGATG
4461	TCTCGTCCGGTTAGTGCAGACAGCA	TTGCTGTCGCACTAACCGGACGAAG
4462	TCTCACGAAAACGTGGGCCCGAAAT	TATTTGGGCCACGTTTCGTGAG
4463	TCGCAGCAGCTGAACCTAGCATTG	TCAATGCTAGAGTTCAGCTGCTGCG
4464	TAGGAGACATACGCCAAATGGTGC	TGCACCAATTGGCGTATGTCTCCT
4465	TATTGAGAACTCGTGCAGGAGTTG	TCAAACCTCCGCGACGAGTTCTCAAT
4466	TCTCTTGAGGCCAGGAGGAGCA	TTGCTCCTCTGGGCCTACAAAGAG
4467	TGCCGCAGGGTCGATAATTGGCTA	TTAGACCAATTATCGACCCCTGCGGC
4468	TAACGCCGCTGAGACTATTGGG	TCCCAATAGTCTCAGGGCGCGTTT
4469	TCTGAGTTGCCTGGAACGTTGGACT	TAGTCCAACGTTCCAGGCAACTCAG
4470	TCGGATGGGTTGCAGAGTATGGAT	TATCCCATACTCTGCAACCCATCCG

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4471	TCTGACCTTGGGGTTAGTGCAGT	TACCGCACTAACCCCCAAAGGTCAG
4472	TGGAAATGAGAACCTTACCCCAGCG	TCGCTGGGTAAAGGTTCTCATTTCC
4473	TAACGCATCGTCCGTCAACTCATCA	TTGATGAGTTGACGGACGATGCGTT
4474	TTGGAGAGAGACTTCGGCCATTGTT	TAACAATGGCCGAAGTCTCTCTCCA
4475	TTTGCCTCATGGATCTTGTCAAGG	TCCTGACAAGATCCAATGAGCGCAA
4476	TAGCGCGTAAAGCACGGAACATT	TAATGTTGCCGTGCTTAACGCGCT
4477	TAGCCAGTAAACTGTGGCGGCTGT	TACAGCCGCCACAGTTACTGGCT
4478	TCGACTGATGTGCAACCAGCAGCTG	TCAGCTGCTGGTTGCACATCAGTCG
4479	TGGTTGCTCATACGACGAGCGAGTG	TCACTCGCTCGTGTATGAGCAACC
4480	TGTCCAACCGCGCAACTCCGATTCAA	TTTGAATCGGAGTTGCGCGTTGGAC
4481	TTTGCACGCGCACCCTCCGTACCTCAA	TTTGAATGACGGACGGTGCAGGCAA
4482	TAGAACCTCCGCGCCTCCGTAGTAG	TCTACTACGGAGGCGCGGAGGTTCT
4483	TAAAGGAGCTTCGCCAACGTACC	TGGTACGTTGGCGAAAGCTCCTT
4484	TAGTGATTGTGCCACTCCACAGCTC	TGAGCTGTGGAGTGGACAATCACT
4485	TGCGATCGTCGAGGGTTGAGCTGAA	TTTCAGCTAACCCCTCGACGATCGC
4486	TGGGAGACAGCATTATGGTCCTCG	TCGAGGACCATAATGGCTGTCTCCC
4487	TGAGACGCTGTCACTCCGGCAGAAC	TGTTCTGCCGGAGTGACAGCGTCTC
4488	TCCACCGGTCGCTTAAGATGCACTT	TAAGTCATCTAACGACCGGTGG
4489	TCGGCATAACGTCCAGTCCTGGAC	TGTCCCAGGACTGGACGTTATGCCG
4490	TAAGCGGAACGGGTTAACCGAGGT	TACCTCGGTATAACCCGTTCCGCTT
4491	TTGCACACTAGGTCCGTCGCTTGAT	TATCAAGCGACGGACCTAGTGTGCA
4492	TAGGGAACCGCGTTAACACTCAGTT	TAACTGAGTTGAACGCCGTTCCCT
4493	TGAATTACAACCACCCGCTCGTGT	TAACACGAGCGGGTGGTTGTAATT
4494	TTTCAGTGCTCACGAAGCATGGATT	TAATCCATGCTCGTGAGCACTGAA
4495	TTTAGTTGGCGTTGGGACTTCACC	TGGTGAAGTCCCAACGCCAAACTAA
4496	TAATGCGACCTCGACGAGCCTCATA	TTATGAGGCTCGTCGAGGTGCGATT
4497	TCCGAAACCGTTAACGTGGCGACA	TTGTGCGCCACGTTAACGGTTTCGG
4498	TTAAAGTAACAAGGCGACCTCCGC	TGCGGGAGGTGCGCTTGTACTTTA
4499	TTAATGATTTAGTCGCGGGGGGG	TCCCACCCCGCGACTAAAATCATTA
4500	TGGCTACTCTAACGTGCCGCTCAGG	TCCTGAGCGGGCACTTAGAGTAGCC
4501	TTGGCGGACGACTCAATATCTCACG	TCGTGAGATATTGAGTCGTCGCCA
4502	TGGCGTTAGGCATAAGACCGTC	TGACGGCTATTACGCCAACGCC
4503	TGCCACCTTAGACGGCGCTCTAG	TCTAGAGCCGCCGTAAAGGTGGC
4504	TGAGATGTGAAACGTGCAGGCACC	TGGTGCCTGCACGTTACACATCTC
4505	TTAGCTCGTGGCCCTCCAAGCGTGT	TACACGCTTGGAGGGCCACGAGCTA
4506	TGTGTCGGCGCTATTGGCCTTAC	TGGTAAGGCCAAATAGCGCCGACAC
4507	TCCAGGGAAAGCAACTGGTTGCCATT	TAATGGCAACCAGTTGCTCCCTGG
4508	TTTCCGAAACTAACGCCAGAACCGCT	TAGCGGTTCTGGCTAGTTCGGAA

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4509	TGCAAACCCGGTAACCCGAGAGTTC	TGAACCTCGGGTTACCGGGTTGC
4510	TGCAAATGGCGTCATGCACGAAACGT	TACGTTCGTGCATGACGCCATTGC
4511	TAGTACTTCGCGCCCAGTTAGGG	TCCCTAAACTGGCGCGAAAGTACT
4512	TAAGATCTGCGAGGCATCCGGCTT	TAAGCCGGATGCCTCGCAGATCTT
4513	TGCAAGTGTATCGCACAGTGCATT	TAATCGCACTGTGCATACACTTGC
4514	TCCGACAAGGCCTCAATTCTCTG	TCAGAATGAATTGAGGCCTTGTGG
4515	TGTCTCGTCTCAACTTAAGGCGCG	TCGCGCCTAAAGTTGAGACGAGAC
4516	TATCCAGAGATCCGTTTGACCGT	TACGCTGAAAACGGATCTCTGGAT
4517	TGTCACCAGGAGGGAAAGTTCACCC	TGGGTGAAACTTCCCTCCTGGTGAC
4518	TTTCCGTCAGGCGGATCAACGGAAT	TATTCCGTTGATCCGCCTGACGGAA
4519	TATGCCGGACACGCATTACACAGGC	TGCCTGTGTAATGCGTGTCCGGCAT
4520	TTGGGCCGCTTGGCGTTTCAAGA	TTCTATGAAAGCGCCAAGCGGCCA
4521	TCCTAGCGCGAGCTTACTGACCAG	TCTGGTCAGTAAAGCTCGCGCTAGG
4522	TTTGGCCAGGAATATGGTCTCGAGA	TTCTCGAGACCATAATTCCGGCAA
4523	TGTCTCGGCCGACTTGCTATGCAT	TATGCATAGCAAGTCGGCCGAGAC
4524	TAACTTGCTCATTCTAAGCCGACG	TCGTCGGCTTGAGAATGAGCAAGTT
4525	TACGTCAAGCGATTGTGGCGAAATAT	TATATTTCGCCACAATCGCTGACGT
4526	TACGGCCTCGCTCAGCACATGCATC	TGATGCATGTGCTGACGCAGGCCGT
4527	TATACCTCCGAGAACCATCCGTT	TAACGGAATGGTTCTGCGGAGGTAT
4528	TAGTCGCGGTCCCACGATTCACTT	TAAGTGAATCGTGGACCGCGAACT
4529	TTGCTCAATTGTGCAGAAAACGCC	TGGCGTTTCTGCACAAATTGAGCA
4530	TTTATCGCGAGAGACGACCGTGTCC	TGGACACGGTCGTCTCTCGCGATAA
4531	TGACGCGACGTGAGTAGTGGAAAGCG	TCGCTTCCACTACTCACGTCGCGTC
4532	TATGGTAGGGGCATTGGCTTCC	TAGGAAAGCCCAATGCCCTACCAT
4533	TCCAATATAGCCGCGCGAGACAT	TATGTCCTCGCGCGCTATATTGG
4534	TGCAAACCCGTATTGAATCGTCCC	TGGGCACGATTCAATCAGGGTTGC
4535	TTAGCGTCTTGCCTGAAACCATGGG	TCCCATGGTTCACGCAAGACGCTA
4536	TCCACCCCGACAGCGCTGGACTCTT	TAAGAGTCCAGCGCTGTCGGGGTGG
4537	TACGAGCACTGAAGGCTGCTTACG	TCGTAAAGCAGCCTTCAGTGCCTGT
4538	TCATATCAGCGTCGTCTAGCTCGCG	TCGCGAGCTAGACGACGCTGATATG
4539	TTGATCCGGACCGGCTAGACTAAT	TATTAGTCTAGCCGGTCCGGGATCA
4540	TGGCCCCGACACTACAGGGTAATCA	TTGATTACCTGTAGTGTGGGGCC
4541	TGGCTCCAGGGCGAGATTATGAATG	TCATTCTATAATCTGCCCTGGAGCC
4542	TCAAAATCCGATGGCGGAAAATTA	TTAATTTCGCCCATCGGATTTC
4543	TCACAGGCGCATAGGGAGCAAGCTA	TTAGCTTGCTCCCTATGCGCCTGTG
4544	TTAGCTATTGCCCGATGGCTACT	TAGTAGCCCATCGGGCAATAGCTA
4545	TTGGTACGCGGTCCATAGCAAGTCG	TCGACTTGCTATGGACCGCGTACCA
4546	TGACGCTGTGGCTGGAAACTGTTC	TGAACAGTTCCGAGGCCACAGCGTC

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4547	TCCTGGGTTCGCCGCGTGGTAAGT	TCAGTTACCACGCGGCGAACCCAGG
4548	TTTCCCGCGTAGCCCCAACAGCTATA	TTATAGCTGTTGGGCTACGCGGGAA
4549	TTTCGCGGATTGCTGCCGCATAACA	TTGTTATGCCGCAGCAATCCGCGAA
4550	TAAAAATGGCACCGAACGTTGAGGCA	TTGCCTCAACTTCGGTGCCATTTT
4551	TCATTCCGCGCGAGTTGAAATCCAG	TCTGGATTCAACTCGCGCGGAATG
4552	TACGCACGTTTTGGCACGGTTAA	TTTAACCGTGCCAAAAAACGTGCGT
4553	TTGTCATGACGTGTTCTGGT	TACCAAGAGAAACGACGTATGGACA
4554	TTCTCAGTCGGACTCGTATGCCAGA	TTCTGGCATACGAGTCCGACTGAGA
4555	TCTCCAAACGCACACATCAAGCATH	TGATGCTTGATGTGCGTTGGAG
4556	TTTCAACCAAGCGGGGTGTTCGTGA	TTCACGAACACCCCGCTGGTTGAA
4557	TGGTGTGAGGGTGGTGACCTCGA	TTCGAGGTCAACCACCCCTCCGACACC
4558	TAGCGCTTTGGTCATGATTGCAA	TTTGCAAATCATGACCAAAAGCGCT
4559	TCCGAGGACTTACGTCTGCCAGGA	TTCTGGCAGACGTAAGTCCTCGG
4560	TGCCCAATCCAGTTCTTATGCGCCC	TGGGCGCATAAGAACTGGATTGGC
4561	TCGGGTTAACCCACGCAAGTTATGA	TTCATAACTTCGCGTGGGTTAACCCG
4562	TTGATTAGCGCTCAATACACCGTG	TCACCGCGTGTATTGAGCGCTAATCA
4563	TAAGGGCAGACCTTGGTCTCGACTG	TCAGTCGAACCAAAGGTCTGCCCTT
4564	TGCGCCACAAGATTACATGTCATT	TAATGACATGTAATCTTGTGGCG
4565	TGCCATGTTCAAGGGCCTTCGAAG	TCTTCGAAAGGCCCTTGAACATGGC
4566	TCGCGGTGTTGTCTAGGTGCCGG	TCCGGCACCTAGACAAAACACCGCG
4567	TCAACATTGGTGGCACTCCATCC	TGGATGGAGTGCCACCACAATGTTG
4568	TCGATACGCGCCGGTTGTTAAATC	TGATTTAACAAACCGGCCGTATCG
4569	TGGCTATAAACGTGCGGACTGCTCC	TGGAGCAGTCCGACGTTATAGCC
4570	TTGGGTAAATCACTATTGCGCGTT	TAACCGCGCAATAGTGATTTACCA
4571	TGTCTTCATCGGCCCCGCGAAGCTA	TTAGCTTGCCTGGGCCATGAAGAC
4572	TGCGACACACCCCTGACTCTGATGC	TGCATCAGAGTACAGGGTGTGCGC
4573	TGTAGCAGGGTCCGCAAGACCAAGC	TGCTTGGTCTTGCCTGGACCCCTGCTAC
4574	TTCGCCAACGCAGGGTAACTGCCAT	TATGGCAGTTACCCCTGCCTGGCGA
4575	TACTCCGAAGCTTCGAGCGGCACGA	TTCGTGCCGCTCGAAGCTTCGGAGT
4576	TCATCGTCCCTTCGATGGATCAA	TTTGATCCCCTCGAAAGGGACGATG
4577	TGCACGGGAGCTGACGACGTGTCAA	TTTGACACGTCGTAGCTCCCGTGC
4578	TATCATCCCACGGCAGAGTGAAGAG	TCTCTTCACTTCGCGTGGGATGAT
4579	TCGCTGGACTGGCTATCCGAGTCG	TCGACTCGGATAGGCCAGTCCAGCG
4580	TCGGTCTCAGAACACTGTCGCAA	TTTGCGACAGTGTGCTGAGACCG
4581	TCGAACGTTCTCGATGTAATGCC	TGGCCATTACATCGGAGAACGTTCG
4582	TATACCGTGCAGACAAGCCCTCTGA	TTCAAGAGGGCTTGTGCGCACGGTAT
4583	TAGCTCATTCCCAGACGGAACACC	TGGTGTCCGTCGGAAATGAGCT
4584	TTTCATGCCGCCATTGCAAATCAT	TATGATTGCAACGGCCGATGAAA

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4585	TACTCGAACGGACGTTCAATTCCA	TTGGGAATTGAACGTCCGTTGAGT
4586	TCTGCATGGTGTGGGTGAGACTCCC	TGGGAGTCTCACCCACACCATGCAG
4587	TCCCGAGTGTGGATGGCGTGTGA	TTCAACACGCCATCCACACTCGCGG
4588	TAATGTGTCGGTCCTAACGCCGGTG	TCACCCGGCTTAGGACCGACACATT
4589	TTAAGACGAGCCTGCACAGCTGCG	TCGCAAGCTGTGCAGGCTCGTCTTA
4590	TGGCGTGGGAGGATAAGACGATGTC	TGACATCGTCTTATCCTCCCACGCC
4591	TTGCTCCATGTTAGGAACGCACCAC	TGTGGTGCCTTAACATGGAGCA
4592	TCGGTGTGGTCGGACTGACGACTG	TCAGTCGTCACTCCGACCAACACCG
4593	TCCCGCGCTATCTATCAGATCTGGG	TCCCAGATCTGATAGATAACGCCGG
4594	TAAAGCATGCTCCACCTGGAGCGAG	TCTCGCTCCAGGTGGAGCATGCTTT
4595	TACTTGACATCGCTGGTAGATCCGG	TCCGGATCTACCCAGCGATGCAAGT
4596	TTGCTTACGCAGTGGATTGGTCAGA	TTCTGACCAATCCACTGCGTAAGCA
4597	TATGCAGATGAACAAATGCCGAAT	TATTGGCGATTGTTCATCTGCAT
4598	TGCAATTCTGGGCCATGTATTGTC	TGACGAATACATGGCCCAGAATTGC
4599	TAGGGTCTTACCGCTCGACATGG	TCCATGTCGACCGCTAACGGAAACCT
4600	TGTGGAGCTAACCGAGCCTCAGA	TTCTGAGGCTCGCGATTAGCTCCAC
4601	TTCTGAGCTCACCGGCAATGATCC	TGGATCATTGCCGGTGAGACTACGA
4602	TTTATAGCAGTGCCTAACGCTCG	TCGAAGCATTGGCGCACTGCTATAA
4603	TCGAACAGTGCTGTCCGTCGCTCAA	TTTGAGCGACGGACAGCACTGTTCG
4604	TTCCCGCTGGACTGTTAGACGCTAT	TATAGCGTCTAACAGTCACGCCGA
4605	TCATTAGCCCCGTGCGTAACGT	TACAGTTACCGACAGCGGGCTAACG
4606	TGGAAAAGAAACTCAGACGCGCAATG	TCATTGCGCGTCTGAGTTCTTCC
4607	TCGACTCGCTGGACAGGAGAACGT	TACGATTCTCCTGTCCAGCGAGTCG
4608	TCATGATCCTCTGTTACCCCGGG	TCCGCGGGTAAACAGAGGGATCATG
4609	TGGCGTAGCGCTCTAAAGCTTCGG	TCCGAAGCTTTAGAGCGCTACGCC
4610	TAGTGATGCCATCAGGCCGTATAC	TGTATACGGGCCTGATGGCATCACT
4611	TTATGGAAAGGGCAACAGCGCTATC	TGATAGCGCTGTTGCCCTTCCATA
4612	TCTGTGGTTGATGGAGGATCCACAC	TGTGTGGATCCTCCATCAACCACAG
4613	TACTCGCTGGAATTGCGCTGACAC	TGTGTCAAGCGCAAATTCCAGCGAGT
4614	TCAGGCCCGAACACCGCGTTACAG	TCTGTAACCGCGTGGTCGGGCCTG
4615	TGGCGCAATGGCGCATAAATACTA	TTAGTATTATGCGCCCATTGCGGCC
4616	TGGTCAATTGCGCTACATGCCCTA	TTAGGGCATGTAGCGCGAACATTGACC
4617	TGATGGTGGACTGGAGCCCTTCCGC	TGCGGAAGGGCTCCAGTCCACCATC
4618	TCCCGCGCATAGCGCAATAGGGAGA	TTCTCCCTATTGCGCTATGCGCGG
4619	TTCTTCTGGCTGTCCGGCACCCGAA	TTTCGGGTGCCGGACAGCCAGAAGA
4620	TGCGTTCGCAATTACGGGCCCTTA	TTAAGGGCCCGTGAATTGCGAACGC
4621	TTCGTTTCGGCCTGGAGAGTATCG	TCGATACTCTCCAAGGCCGAAACGA
4622	TAGGTGCAAGTGCAAGGCGAGAGGC	TGCCTCTCGCCTTGCACCTGCACCT

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4623	TCGCCAGTTCGATGGCTGACGTT	TAAACGTCAGCCATCGAAACTGGCG
4624	TGCTTACCGCCGATCCCAGATATC	TGATATCTGGATCGCGGTAAAGC
4625	TGTGCTTGACGAAGAGGCGAAATGT	TACATTCGCCTCTCGTCAAGCAC
4626	TCAGTCCGTGCGCTTCATGTCCCTCA	TTGAGGACATGAAGCGCACGGACTG
4627	TTACCGTAAGAGCCTACCCCGCG	TCGCGAGGGTAGGCTCTACCGTA
4628	TGGCGAGTCTTGTGGGACATGTGT	TACACATGTCCCCACAAGACTCGCC
4629	TCCAAAGCGAAGCGAGCGTGTCTAT	TATAGACACGCTCGCTTCGCTTGG
4630	TGCCGTAGGTTGCTCTCACCGAAC	TGTTCCGGTAAGAGCAACCTACGGC
4631	TAAATCCCGATGTGCCGTGAGGCT	TAGCCTCACGGCACATCGCGGATT
4632	TGGCTCGCACCGTACCAATTAG	TCTAAATTGGTACGGGTGCGAAGCC
4633	TTGTAGAGTCCCACGTAGCCGGCAT	TATGCCGGCTACGTGGACTCTACA
4634	TCACTAGTCTGGGCAAGGTGCATT	TAATGCACCTTGGCCCCAGACTAGTG
4635	TTGTACTCGGCAGGCGCAATAGATT	TAATCTATTGCCCTGCCGAGTACA
4636	TAACGGGTATCGGAAGCGTAAAAGC	TGCTTTACGCTCCGATACCGTT
4637	TCGGACTGCCGTTGCAAGTTGAG	TCTCAACTTGCAAACGGGCAGTCG
4638	TATCGTTCAGCACTGGAGCCCGTAA	TTTACGGGCTCCAGTGCTGAACGAT
4639	TATGCATCGAACTAGTCGTGACGGC	TGCCGTACGACTAGTCGATGCAT
4640	TTTCAGGCATTAAGGAGAGGGAGC	TGCTCCCTCTCCTTAATGCCCTGGAA
4641	TGTGCGACATCTACTCCACGATCCC	TGGGATCGTGGAGTAGATGTCGCAC
4642	TCTCATCGCTTAACACGAGAGCCC	TGGGCTCTCGTGTAGGACGATGAG
4643	TAATGGCACTCGGCCGTGATGCAA	TTTGCATCACGCCGAAGTGCCATT
4644	TCCGTGGAGGGAATCCAACCGAGG	TCCTCGGTTGGATTCCCTCCCACGG
4645	TAAATTCTCGTTGGTACGGCTCAT	TATGAGCCGTACCAACGAGAATT
4646	TTTGCTCTTATCCTGTCCTGGCG	TCGCCAGGACAAGGATAAGAGCAA
4647	TTTAAGGATCAGGCGGAGCTGCAG	TCTGCAAGCTCCGCTGATCCTAA
4648	TCGCAGACTAAGGTGCTGCAACTCGA	TTCGAGTTGCAGCACCTTAGTCGCG
4649	TGCTCGATTTCACGGCCGTTGTT	TGAACAACGGCCGTGAAATCGAGC
4650	TAGCAGAGTGCCTGCAGAGGCTAA	TTTAGCCTCTGCAACGCACTCTGCT
4651	TTGGAGGTGAGGACGACGTGCACTA	TTAGTGCACGTCGTCTCACCTCCA
4652	TAACCGTTAGGGTACATTGCGGT	TACCGCGAATGTACCCCTAACGGTT
4653	TTATGATCGCTCGGCTCACAGTTG	TCAAACGTGAGCCGAGCGATCATA
4654	TGACTTTTGCAGAACGTATGGT	TACCATGACGTTCCGCAAAAAGTC
4655	TTGTCGGTTATTCCACCTGCAAGGA	TTCCCTGCAGGTGGAATAACCGACA
4656	TCTATGGTTGCAGTCGCCGTGCA	TTCGACGGCGCAGTGCAAACCATAG
4657	TAGCAGGGAAATTCAATCGTTCGCA	TTGCGAACGATTGAATTCCCTGCT
4658	TCCTAACCGAGCGCTTAGCATTCC	TGGAAATGCTAAGCGCTGGTAGG
4659	TCCCGACCCCTAACTCGCATTGAATA	TTATTCAATGCGAGTTAGGGCGGG
4660	TTTGCCTAATGGTGACGCCACGGAT	TATCCGTGGCGTCACCATTAGCAA

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4661	TGATGCTGCCGTGTTAGTCACG	TCGTGAACTAACACGGCGAGCATC
4662	TTCGGATGACGAGTTCCATGACGG	TCCGTCATGGAAACTCGTCATCCGA
4663	TATGCGGTCTACTTCTGATCGGG	TCCCGATCGAGAAAGTAGACCGCAT
4664	TTTGCAGGGCTAACGACACCGTAAA	TTTACCGTGTGCTTAGCCTCGCAA
4665	TAACTTAATTACCGCCTCTGGCGCC	TGGGCCAGAGGCGGTAATTAAAGTT
4666	TGTGACCGCGAACTTGTTCCGACAG	TCTGTCGGAACAAGTCGCGGTAC
4667	TTGCGGATTACCGATTGCTCTTAA	TTAAGAGCGAATCGGTAATCCGCA
4668	TTGATAGGGGCCACGTTGATCAGA	TTCTGATCAACGTGGCCCCCTATCA
4669	TTCGCTCCGTAGCGATTCATCGTAG	TCTACGATGAATCGCTACGGAGCGA
4670	TTGTCAGCTGGTAGCCTCCGTTGA	TTCAAACGGAGGCTACCAGCTGACA
4671	TAGCGTCGATGACGCTTACGGCAC	TGTGCCGTAAGCGTCATCGGACGCT
4672	TAGACGCACCGAACAGGCTGTCAA	TTTGACAGCCTGTTGCGGTGCGTCT
4673	TCGTGTAGGGTCCCCTGCTGTCAA	TTTGACAGCACGGGACCCCTACACG
4674	TGTCGCAATTCTGCACTGGCTCGCC	TGGCGAAGCCAGTGCAGAATGCGAC
4675	TTGATTAGGTGCGGCTCCGTAGTCC	TGGACTACGGGACCGCACCTAATCA
4676	TAAGGGACCTTGGGTGACGGCGAGA	TTCTCGCCGTCACCCAAAGGTCCCTT
4677	TTCAAATGGCCACCGCGTGTCAATT	TGAATGACACCGGGTGGCCATTG
4678	TCTCCGACGACCAATAATAGCCGC	TGCGGCTATTATTGGTCGTCGGAG
4679	TGGCTATTCCCGTAGAGAGCGTCCA	TTGGACGCTCTACGGGAATAGCC
4680	TTGGATAACCTCTCGGTCCATCCAC	TGTGGATGGACCGAGAGGTTATCCA
4681	TGACCGCTGTACGGGAGTGTGCCTT	TAAGGCACACTCCGTACAGCGGTC
4682	TGCCACAGAGTTTAGCAGGGACCC	TGGGTCCTGCTAAAACCTGTGTC
4683	TCCCACGCTTCCGACCACTGACCT	TAGGTCAGTGGTCGGAAAGCGTGGG
4684	TCATTGACACAATGCGGGACTGAT	TATCAGTCCCCGATTGTGTCATG
4685	TAGCCACTCGACAGGGTCAAAGC	TGCTTTGGAACCTGTCGAGTGGCT
4686	TCAGGATGAGCAAAGCGACTCTCCA	TTGGAGAGTCGCTTGCTCATCCTG
4687	TCAAGGTATGGTCTGGGCCTAACG	TGCTTAGGCCAGACCATACCTTG
4688	TGGTGTTCGGCCTAAACTCTTCGG	TCCGAAAGAGTTAGGCCGAACACC
4689	TTTTAGTCGGACCCGTGGCAATT	TGAATTGCCACAGGGTCCGACTAAA
4690	TCACACGTTCCGACCAAGCCTGAAC	TGTTCAGGCTGGTCGGAAACGTGTG
4691	TCTGGACGAACCTGGCTCCTCGTAC	TGTACGAGGAAGCCAGTTCGTCCAG
4692	TTTCACAATCCGCCAAAAACTGACC	TGGTCAGTTTCGGCGGATTGTGAA
4693	TAACAGGATATCCCGCATCAGACA	TTGTCGTGATCGCGGATATCCTGTT
4694	TTACGTCGGATCCATTGCGCCGAGT	TAACCGCGCAATGGATCCGACGTA
4695	TCATGGATCTCGGTTGATGCC	TGGCGATCAAACCGAGAGATCCATG
4696	TAGCCAGGGCGGTATATACGCTCGG	TCCGAGCGTATATACGCCCTGGCT
4697	TATTTGGCACGTGTGCGCATGTT	TAACATGGCACGACACGTGCCAAAT
4698	TCCCGTTCGACCACTTGAGGTGC	TGCACCTCAAAGTGGTGCACGCGG

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4699	TTGGACGTGACAAGCATGGCGCTC	TGAGCGCCATGCTTGTACGTCCAA
4700	TCTGAATCGCGCAAGTAAATGGGG	TCCCCCATTACTGCGCGATTCAAG
4701	TGATAAGGTCCACCAGATTGCGCGC	TGCGCGCAATCTGGTGGACCTTATC
4702	TCTAACAAATTGCCAACCGGGACGGC	TGCCGTCCCGGTTGGCAATTGTTAG
4703	TGGTAACCTGGGTGCTGCAGGTTA	TTAACCTGCAAGCACCCAGGTTACC
4704	TATCGGAGCCACCATTGCGATTGGG	TCCCAATGCGAATGGTGGCTCCGAT
4705	TGTGAACCTGGCTTCCCCAGGATTA	TTAACCTGGGCAAGCCAGTTCAC
4706	TAGGCGATAGCATGGTCCCATATGA	TTCATATGGGACCATGCTATGCCCT
4707	TAACGGTATCGTGGCTAATGCACGA	TTCGTGCATTAGCCACGATACCGTT
4708	TAGTAGTGGCCTCCAGATCGGCAA	TTTGCCGATCTGGAGGACCACTACT
4709	TCCGTTGAATTGGACGGGAGGTTAG	TCTAACCTCCCGTCCAATTCAACGG
4710	TGCATAAGTGCAGGCATCGCGAAGGG	TCCCTCGCGATGCCGCACTTATGC
4711	TCGACAAGATGCAGCTGCTACATGC	TGCATGTAGCAGCTGCATTTGTCG
4712	TTCGCAGTGATTCCCAGCGATAAG	TCTTATCGGTGGGAATCACTGCGA
4713	TCAAGGCGAGTCCACTCGAGGGGAC	TGTCCCCCTCGAGTGGACTCGCCTTG
4714	TGCAACTTGCACGGCATAAGTGGCC	TGGCCACTTATGCCGTGCAAGTTGC
4715	TTCCGAGCTTGACGTTCGCGACGTC	TGACGTGCGAACGTCAAGCTCGGA
4716	TAGCGCTGGGCTGTGCTGCCATCTC	TGAGATGGCAGCACAGCCCAGCGCT
4717	TTTCATGCGCTGAGTAACCCTCGC	TGCGAGGGTTACTCAGCGACATGAA
4718	TCGAACCGCTAATGCCATTGTCAG	TCTGACAATGGGCATTAGCGGTTCG
4719	TCACGGAAGGTGGGACAAATCGCCG	TCGGCGATTTGCCCCACCTCCGTG
4720	TCACAGATGGAGACAAACGCGCCTT	TAAGGCGCGTTGTCTCCATCTGTG
4721	TTTCGCAACTCGCTCCATAACCC	TGGGTTATGGAGCGAGTTGCGAAAA
4722	TACGTTACGTTCCGGCGCCTCTAA	TTTAGAGGCGCCGGAAACGTAACGT
4723	TTATCGGATTGCGTGGTTCAATC	TGATTGAAACCCACGCAATCCGATA
4724	TCTCCACAAATTGCTGCGACGCAC	TGTGCGTCGAGACAATTGGAAG
4725	TTGCACAAAGGTATGGCTGTCCGGC	TGCCGGACAGCCATACCTTGTGCA
4726	TTCCGATGCCAGTCCCCTTAAGA	TTCTTAAGATGGGACTGGCATCGGA
4727	TCTGAAACCGTGCAGATCGAGGTGA	TTCACCTCGATTGCGACGGTTTCAG
4728	TCGGTGTTCGCGTGTGAAAAAAT	TATTTTTCGACACGCGGAACACCG
4729	TTCTAGCAGGCCTTTGAATGCCA	TTGGCGATTCAAAAGGCCTGCTAGA
4730	TGAGTCACCTCTGAGACGGACGCCA	TTGGCGTCCGTCTCAGAGGTGACTC
4731	TTCTTCTGTCATCCTGCGAGCAGCAT	TATGCTGCTGCGAGGATGACAGAAGA
4732	TGCGGATGAAACCTGAAAGGGCCT	TAGGCCCCTTTCAGGTTCATCCGC
4733	TGGGGCCCCAAACTGGTATCAAGCC	TGGCTTGATACCAGTTGGGGCCCC
4734	TGCATTGGCTTCGGATTCTCCTACA	TTGTAGGAGAATCCGAAGCCAATGC
4735	TAGGCGGCCCAACTGTGAGGTCTG	TCAAGACCTCACAGTTGGGCCGCT
4736	TACACCATGTGCTCCGGCGCTGCAGT	TAATGCAGCGCGGAGCACATGGTGT

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4737	TACGATGAACATGAATGGGAGTCG	TCGACTCCGATTCATGTTCATCGT
4738	TCTGCATCCCTGTAGCAGCGCTCCG	TCGGAGCGCTGCTACAGGGATGCAG
4739	TGTGCCGTATTCGACCTGTGCGTT	TAACGCACAGGTCGAAATACGGCAC
4740	TGCAGTGCACACTTCAGTCAAAAG	TCTTTGAACTAAGTGCACACTGC
4741	TGCGATTTAACGATGCCTTGACG	TCGTCAAGGCATCGCTAAAATCGC
4742	TTAGGTGACCTAGGCTTGCTTGCAG	TCCGCAAGCAAGCCTAGGTACCTA
4743	TCTGGATACCTGCCTGTGCGGCAG	TGCGCCGCACAGGCAAGGTATCCAG
4744	TCCCCTACGGCTCGTCGTATGC	TGCATAGACGACGAGCCGTAAGGGG
4745	TGCGCTTGGCCGATGCGATTGATTA	TTAATGCATCGCATGGCAAGCGC
4746	TTTCTGTAAGCGGCCTGGGTTCA	TTGAACCCCAGGCCGCTTACAGAAA
4747	TGGCTGAGGTGAGCGGTAAAGGATGA	TTCATCCTTACCGCTCACCTCAGCC
4748	TTCTGGCCTCCCCGATCTAATTG	TCAAATTAGATGGGGAGGCCAAGA
4749	TGGAGGTAACGCCGTACGTAGGA	TTCCTACGTACACGGCGTTACCTCC
4750	TGTAATCCATTGTGGCTGCGTCAA	TTTGACGCAGCCACAAATGGATTAC
4751	TCAAACCCATTCCAGCAGACGCCTG	TCAGGCGTCTGCTGGAATGGTTTG
4752	TTAGGAGGAATTGGCATGCGGCG	TCGCCCCATGCCAATTCCCTCTA
4753	TATAGGTAGGATGTGCCCGCGTTG	TCAACGCCGGGCACATCCTACCTAT
4754	TGCAAGTGCCTAGCTCGTCAGCCTC	TGAGGCTGACGAGCTAACACTGC
4755	TCTGGCTGTGCGCATCTCGTTAAC	TGTTAACGAGATGCGACACAGCCAG
4756	TCTAACGTCGTCTCGCGCAATCACT	TAGTGATTGCGCGAGACGACGTTAG
4757	TTTTCATAAACGTTGCCCGAGC	TGCTCGGGACAACGTTATGAAAA
4758	TAGCAGGAGGACGAACCTCCGCTCC	TGGAGCGGAGGTTCGTCCTCCTGCT
4759	TTTCAAGCACCATCGTCAATCCAA	TTTGGATTGCACGATGGTGCTGAA
4760	TAGCGTCGCCAGTGATCGCTAGTGG	TCCACTAGCGATCACTGGCGACGCT
4761	TTACATTCCCTGCCTCCGTGGGCTT	TAAGCCCACGGAGGCAGGGAAATGTA
4762	TCGCTTCGCGTATTCACTAGCGGTT	TAACCGCTACTGAATACCGCAAGCG
4763	TTCGGACGCGTCGACACTCATTATA	TTATAATGAGTGTGACCGTCCGA
4764	TTCTGAGCAGGCCAGCGCTCCAGCT	TAGCTGGAGCGCTGGCCTGCTCAGA
4765	TTTGAATTGCCAAGCCCTGAAAGCC	TGGCTTCAGGGCTGGCAATTCAA
4766	TAGTTTCGCCATTGATGCGTCGGTG	TCACCGACGCATCAAGGCAGAAACT
4767	TGTTTCATAGGCCACCGCGTGCTAAA	TTTAGCACGCGTGGCCTATGAAAC
4768	TCATCGCTGCAAGTACCGCACTCAA	TTTGAGTGCAGGTACTTGCGACGATG

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**IN THE CLAIMS:**

Please replace the section entitled "CLAIMS", starting on page 255, line 1, with the following rewritten section:

~~CLAIMS~~

We claim:

1. An oligonucleotide array comprising an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

2. An array according to claim 1, wherein said capture probes are microspheres.

3. An array according to claim 1 or 2 wherein said array is a liquid array.

4. An array according to claim 1 or 2, wherein said array further comprises a solid support.

5. An array according to claim 1, wherein said addresses are microspheres and wherein said solid support comprises wells into which said microspheres are individually distributed.

6. An array according to claim 1, wherein each address is a different known location, and said wherein each capture probe is attached to one of said known locations.

7. An array according to claim 1, wherein said array comprises at least 50 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

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8. An array according to claim 1 wherein said array comprises at least 100 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4.

9. A kit comprising at least twenty-five nucleic acids selected from the group consisting of sequences substantially complementary to the sequences set forth in Table 1, Table 2, Table 3 and Table 4 or their complement. (amended)

10. A kit according to claim 9, wherein said kit comprises at least 50 nucleic acids selected from the group consisting of the sequences substantially complementary to the sequences set forth in Table I, Table 1, Table 2, Table 3 and Table 4 or their complement. (amended)

11. A kit according to claim 9, wherein said kit comprises at least 100 nucleic acids selected from the group consisting of the sequences substantially complementary to the sequences set forth in Table 1, Table 2, Table 3 and Table 4 or their complement. (amended)

12. A kit according to claim 9, wherein said nucleic acids further comprise at least a first universal priming sequence.

13. A kit according to claim 9, wherein said nucleic acid sequence further comprises a sequence substantially complementary to a target domain.

14. A method of immobilizing a target nucleic acid sequence, said method comprising:

a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table 1, Table 2, Table 3 and Table 4;

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b) contacting said modified first target nucleic acid sequence with an array comprising an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4, whereby said target nucleic acid sequence is immobilized. (amended)

15. A method of detecting a target nucleic acid sequence, said method comprising:

a) attaching a first adapter nucleic acid to a first target nucleic acid sequence to form a modified first target nucleic acid sequence, wherein said first adapter nucleic acid comprises a sequence substantially complementary to a sequence selected from the sequences set forth in Table 1, Table 2, Table 3 and Table 4;

b) contacting said modified first target nucleic acid sequence with an array comprising:

an array of at least 25 different addresses, each address comprising a different capture probe selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4; and

c) detecting the presence of said modified first target nucleic acid sequence. (amended)

16. A method of detecting a target nucleic acid, said method comprising:

a) hybridizing a first adapter probe with a first target nucleic acid, said first adapter probe comprising a first domain that is complementary to said first target nucleic acid and a second domain, said second domain comprising a first sequence substantially complementary to a selected from the group consisting of the sequences set forth in Table 1, Table 2, Table 3 and Table 4 to form a first hybridization complex;

b) contacting said first hybridization complex with an enzyme such that when said first domain of said adapter probe is perfectly complementary with said first target nucleic acid, said first adapter probe is altered resulting in a modified first adapter probe;

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- c) contacting said modified first adapter probe with a population of microspheres comprising at least a first subpopulation comprising a first capture probe, such that said first capture probe and said modified first adapter probe form a second hybridization complex; and
- d) detecting the presence of said modified first adapter probe as an indication of the presence of said target nucleic acid. (amended)

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**REMARKS**

Attached hereto is a marked-up version of the changes made to the specification by the current amendment. The attached page is captioned "Version with markings to show changes made."

These amendments are made in adherence with 37 C.F.R. § 1.821-1.825. This amendment is accompanied by a floppy disc containing the above named sequence, SEQUENCE ID NUMBERS 1-4768, in computer readable form, and a paper copy, submitted as a compact disk, of the sequence information. The computer readable sequence listing was prepared through use of the software program "Patent-In" provided by the PTO. The information contained in the computer readable form is identical to that of the paper copy, submitted as a compact disk. This amendment contains no new matter. Applicant submits that this amendment, the accompanying computer readable sequence listing, and the compact disk copy thereof serve to place this application in a condition of adherence to the rules 37 C.F.R. § 1.821-1.825.

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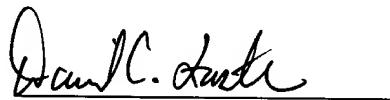
**Filed:** August 27, 2001

Please direct any calls in connection with this application to the undersigned at  
(415) 781-1989.

Respectfully submitted,

FLEHR HOHBACH TEST

ALBRITTON & HERBERT LLP



David C. Foster  
Reg. No. 44,685

Four Embarcadero Center, Suite 3400  
San Francisco, CA 94111-4187  
Telephone: (415) 781-1989  
1072536